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**DG1 – General Purpose Industrial Inverter**

* Typical applications with normal or extended torque
* fans, smoke exhausters
* pumps and multi-pump systems, fire pumps and sprinklers
* conveyors (single- and multi-axis configurations)
* vertical drives for crains
* compressors
* mills and mixers
* screw conveyors, extruders
* crusher
* machinery
* Typical application-segments
* Water-/Wastewater
* Bulding
* Industry
* HVAC
* Oil & Gas

Main features

* Ease-of-use
* Out-Of-Box commisioning!
* Only 18 basic parameters!
* Multi-language plain text display and keypad with copy function
* Compact Invertersystem for 3 phase asynchronous motors and a power range of:
  + 0,75kW-90kW@230V, 0,75HP-125HP@230V
  + 0,75kW-160kW@400V, 1HP-250HP@480V
  + 1,5kW-160kW@500V, 2HP-250HP@600V

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Frame­size** | **Current range**  **208-240V** | **Current range**  **380-500V** | **Current range**  **525-600V** | **H x B x T [mm]** | **weight [kg]** |
| 1 | 3,7/4,8 -11/12,5 | 2,2/3,3 – 9/12 | 3,3/4,5 – 7,5/10 | 327 x 152 x 200 | 7 |
| 2 | 12,5/17,5 – 25/31 | 12/16 – 23/31 | 10/13,5 – 18/22 | 419 x 169 x 244 | 12 |
| 3 | 31/48 – 48/61 | 31/38 – 46/61 | 22/27 – 34/41 | 558 x 200 x 252 | 23 |
| 4 | 61/75 – 114/143 | 61/72 – 87/105 | 41/52 – 62/80 | 630 x 243 x 290 | 35 |
| 5 | 143/170 – 170/211 | 105/140 – 170/205 | 80/100 – 125/144 | 888 x 290 x 344 | 64 |
| 6 | 211/261 – 248/312 | 205/261 – 245/310 | 144/208 – 208/250 | 1035 x 486 x 371 | 113 |

* Safety integrated for safe machines and applications via STO (Safe Torque off).
* Energiecost calculator for your energy management
* Dynamic energy saving function (patentet) to minimize losses in the motor
* Motor control modes:
* Sensorless Vector Control (SLV)
* V/f control, linear, squared, programmable
* Torque control
* Integrated 5% DC link choke for effective reduction of harmonics in the supply network.
* Kinetic Buffer via the DC-link.
* Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card.
* Realtime clock with battery buffer for time controlled operations directly controlled by the inverter.
* Dual Rating for normal and squared loads.
* Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters
* control of an exteranl bypass by the inverter
* Fire Mode
* Multi-Pump control for single master, multi master, multi-master-multi-follower
* Derag function
* cold wether mode for use down to -30°C
* 2 free available PID controller for process control, cascadable
* Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password
* internal oszilloscope function with 8 channels
* CE marking according to the product standard EN61800
* UL marking according to UL508C
* CSA marking according to CSA C22.2 No.274-13
* UkrSepro and EAC marking
* compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU
* Accessories:
* EMC filters for C1
* mains chokes
* motor chokes
* sine filters for motor wires up to 500m screened
* all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter.
* Braking resistors for up to 40%ED
* Communikation wires to parameterize via PC or Laptop
* Unified, device independent engineering and commissioning software PowerXpert inControl

Applicationspecific functions

Beam Fan

* The internal PID controller makes it possible to maintain a constant pressure in the system by continuously controlling the speed based on the process value delivered by the system
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu
* provides (2-10%) energy savings over competitors “out of box” mode without motor tuning
* top priority in Fan applications are energy savings. With it‘s energy saving function DG1 fulfills this and reduces part-load losses

Booster Pump

* provide precise control over a wide range of flow/pressure. Using Multi-Master support a redundant setup is easy done. Trips the Master, the Slave Drives takes over control without additional actions by the PLC
* control your pump system with 2 built-in PID loops and eliminate the need for external control systems
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu
* utilize real time clock to run pump cleaning cycles of rapid acceleration and deceleration to prevent sediment buildup and clogging
* provides (2-10%) energy savings over competitors “out of box” mode without motor tuning
* Eaton drives provide up to 50% energy savings over direct on line (DOL) starters
* Prevents the pump from continuing to rotate when the pressure falls below an adjustable value and no fluid is being pumped any more. By automatically stopping the pump, this mode lowers energy consumption, wear, and costs

Chain Conveyors

* IP54 for distributed layouts. This degree of protection makes the system more modular, easy to expand, and saves control panel space
* designed in Safety typical yellow, simplifies integration in the required Safety System according to the Machine Directive.

Chiller Pumps

* alternating pump sequence to keep run time equal across the system.
* provide precise control over a wide range of {flow/pressure} by bringing pumps online as needed. For systems with one or more connected DG1 devices.
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu
* utilize real time clock to run pump cleaning cycles of rapid acceleration and deceleration to prevent sediment buildup and clogging

Conveyor Belt

* IP54 for distributed layouts. This degree of protection makes the system more modular, easy to expand, and saves control panel space
* 200% Torque at Start - Additional torque for starting fully loaded systems and systems with an incline
* designed in Safety typical yellow, simplifies integration in the required Safety System according to the Machine Directive.

Cooling Compressors

* IP54 designs provide increased environmental protections
* The internal PID controller makes it possible to maintain a constant pressure in the system by continuously controlling the speed based on the process value delivered by the system
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu
* designed in Safety typical yellow, simplifies integration in the required Safety System according to the Machine Directive.  
  In case of a blockage in the system, e.g. a cooling liquid pipe is squeezed or a valve is broken, the system must be shut down safe
* provides (2-10%) energy savings over competitors “out of box” mode without motor tuning

Fire pumps / sprinklers

* Best-in-Class Ambient Temperature range from -30 °C up to +60 °C
* DG1 variable frequency drives can be used to run fire pumps and smoke ventilation systems in building infrastructure and tunnel applications. When this mode is enabled, faults will not result in a shutdown. In addition, a fixed operating direction can set. Finally, the DG1 will run as long as necessary, even beyond its load limits
* In order to ensure that systems can be tested under safe conditions, DG1 variable frequency drives feature a „fire mode test“ mode in which the control section will respond the same way as in an emergency, but while all protective functions continue to

Grinding Machine: Sanding dust extraction

* The internal PID controller makes it possible to maintain a constant pressure in the system by continuously controlling the speed based on the process value delivered by the system
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu
* designed in Safety typical yellow, simplifies integration in the required Safety System according to the Machine Directive.

Inlet and Exhaust Fans

* Relatively small voltage drops or short power outages do not require for fans to be shut down. The automatic restart function automatically brings the fan back online after a power failure in order to minimize downtimes and potential system faults
* Operators can switch between manual and automatic modes by means of control commands or with the keypad, enabling them to intervene in the control system at any time
* The internal PID controller makes it possible to maintain a constant pressure in the system by continuously controlling the speed based on the process value delivered by the system
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu
* The underload detection function makes it possible to respond safely when a fan belt breaks. When the belt breaks, the application will cease to work correctly, but the motor will run at its maximum speed. DG1 devices will detect this situation and safe
* top priority in Fan applications are energy savings. With it‘s energy saving function DG1 fulfills this and reduces part-load losses

Mining

* Conformal coated boards protect against aggressive ambient
* Short circuit protection up to 100 kA (Ic) in combination with Breakers or Fuses
* 200% peak torque - Independently of the fact that a DG1 can work with a 150% overload for 60 seconds every 10 minutes, it also offers a peak torque of 200% (for 2 seconds every 20 seconds) for critical situations. This makes it possible to reliably overcome even the toughest overload requirements. And when even this is not enough to keep driving the application, the DG1 unit will detect this and shut down with a fault message before it or the motor is damaged
* All PCBs in DG1 variable frequency drives come with a conformal coating and are accordingly resistant to dust and aggressive gases. This eliminates the need for expensive, protected enclosures used to keep process-related dust at bay.

Mixer

* Overload requirement for machinery applications
* 200% peak torque - Independently of the fact that a DG1 can work with a 150% overload for 60 seconds every 10 minutes, it also offers a peak torque of 200% (for 2 seconds every 20 seconds) for critical situations. This makes it possible to reliably overcome even the to
* designed in Safety typical yellow, simplifies integration in the required Safety System according to the Machine Directive.
* Demanding requirements resulting from the environment and the application make it indispensable to have the right motor protection in order to efficiently prevent any motor damage. Accordingly, the protection function in DG1 variable frequency drives ca

Pumpjack

* DG1 variable frequency drives can be used to assign an individual message to three external faults, e.g., „Rod breakage“. This makes it possible to quickly and efficiently determine the cause behind a shutdown
* Makes it possible to run machines even at extremely low temperatures inside the switch gear room without the need for external heating.
* specific with an eccentric load there is a strong oscillation between power consumption and power generation. Overdimensiong, active front ends or external DC Link Capacitors are not required using {Dev}. As a result it is a very competitive and cost efficient solution.

Smoke Fan

* DG1 variable frequency drives can be used to run fire pumps and smoke ventilation systems in building infrastructure and tunnel applications. When this mode is enabled, faults will not result in a shutdown. In addition, a fixed operating direction can be set. Finally, the DG1 will run as long as necessary, even beyond its load limit
* In order to ensure that systems can be tested under safe conditions, DG1 variable frequency drives feature a „fire mode test“ mode in which the control section will respond the same way as in an emergency, but while all protective functions continue to work
* Operators can switch between manual and automatic modes by means of control commands or with the keypad, enabling them to intervene in the control system at any time
* The internal PID controller makes it possible to maintain a constant pressure in the system by continuously controlling the speed based on the process value delivered by the system
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu

Stable Ventilation

* Conformal coated boards protect against aggressive ambient
* IP54 designs provide increased environmental protections
* The underload detection function makes it possible to respond safely when a fan belt breaks. When the belt breaks, the application will cease to work correctly, but the motor will run at its maximum speed. DG1 devices will detect this situation and safe
* allow use of unscreend motor wires, wire length is limited only by the voltage drop

Stone-Crusher

* Best-in-Class Ambient Temperature range from -30 °C up to +60 °C
* Makes it possible to run machines even at extremely low temperatures inside the switch gear room without the need for external heating.
* All devices are able to perform at their full rating at ambient temperatures of up to 50 °C (IP21 and IP54) and feature an output that is short-circuit-proof up to 100 kA – that is what we call best-in-class.  
  Fans with an exceptionally long service life,

Vibrating Screen

* 200% peak torque - Independently of the fact that a DG1 can work with a 150% overload for 60 seconds every 10 minutes, it also offers a peak torque of 200% (for 2 seconds every 20 seconds) for critical situations. This makes it possible to reliably overcome even the to
* Makes it possible to run machines even at extremely low temperatures inside the switch gear room without the need for external heating.
* All devices are able to perform at their full rating at ambient temperatures of up to 50 °C (IP21 and IP54) and feature an output that is short-circuit-proof up to 100 kA – that is what we call best-in-class.

Fans with an exceptionally long service life, combined with a flexibly adjustable fan controller, result in greater reliability. The heavy-duty design behind these devices is also evident in their degree of protection: All models with an output of up to 160 kW are available with degrees of protection of IP21 and IP54.

The sturdy metal enclosure for the power section and the design in general are engineered to keep working even when subjected to extreme loads. In order to guarantee this, we conducted numerous tests at ambient and operating conditions that far exceeded the rated conditions so as to identify and eliminate any potential weak spots.

Water-/Wastewater Pumps

* brings Pumps back online after a power failure in order to minimize downtimes and potential system faults
* alternating pump sequence to keep run time equal across the system.
* provide precise control over a wide range of {flow/pressure} by bringing pumps online as needed. For systems with one or more connected DG1 devices.
* akes things easier for operators by making it possible to directly show the flow rates or pressure and monitor them in the motor menu
* utilize real time clock to run pump cleaning cycles of rapid acceleration and deceleration to prevent sediment buildup and clogging

Frequency Inverter DG13 phase, 208 V - 240 V, 3.7 A / 4.8 A, EMC-Filter, Brake Transistor, IP21/NEMA1 8

Frequency Inverter DG13 phase, 208 V - 240 V, 4.8 A / 6.6 A, EMC-Filter, Brake Transistor, IP21/NEMA1 10

Frequency Inverter DG13 phase, 208 V - 240 V, 6.6 A / 7.8 A, EMC-Filter, Brake Transistor, IP21/NEMA1 12

Frequency Inverter DG13 phase, 208 V - 240 V, 7.8 A / 11 A, EMC-Filter, Brake Transistor, IP21/NEMA1 14

Frequency Inverter DG13 phase, 208 V - 240 V, 11 A / 12.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1 16

Frequency Inverter DG13 phase, 208 V - 240 V, 12.5 A / 17.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1 18

Frequency Inverter DG13 phase, 208 V - 240 V, 17.5 A / 25 A, EMC-Filter, Brake Transistor, IP21/NEMA1 20

Frequency Inverter DG13 phase, 208 V - 240 V, 25 A / 31 A, EMC-Filter, Brake Transistor, IP21/NEMA1 22

Frequency Inverter DG13 phase, 208 V - 240 V, 31 A / 48 A, EMC-Filter, Brake Transistor, IP21/NEMA1 24

Frequency Inverter DG13 phase, 208 V - 240 V, 48 A / 61 A, EMC-Filter, Brake Transistor, IP21/NEMA1 26

Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, Brake Transistor, IP21/NEMA1 28

Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, Brake Transistor, IP21/NEMA1 30

Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, Brake Transistor, IP21/NEMA1 32

Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, Brake Transistor, IP21/NEMA1 34

Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, Brake Transistor, IP21/NEMA1 36

Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, Brake Transistor, IP21/NEMA1 38

Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, Brake Transistor, IP21/NEMA1 40

Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, Brake Transistor, IP21/NEMA1 42

Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, IP21/NEMA1 44

Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, IP21/NEMA1 46

Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, IP21/NEMA1 48

Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, IP21/NEMA1 50

Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, IP21/NEMA1 52

Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, IP21/NEMA1 54

Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, IP21/NEMA1 56

Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, IP21/NEMA1 58

Frequency Inverter DG13 phase, 208 V - 240 V, 3.7 A / 4.8 A, EMC-Filter, Brake Transistor, IP54/NEMA12 60

Frequency Inverter DG13 phase, 208 V - 240 V, 4.8 A / 6.6 A, EMC-Filter, Brake Transistor, IP54/NEMA12 62

Frequency Inverter DG13 phase, 208 V - 240 V, 6.6 A / 7.8 A, EMC-Filter, Brake Transistor, IP54/NEMA12 64

Frequency Inverter DG13 phase, 208 V - 240 V, 7.8 A / 11 A, EMC-Filter, Brake Transistor, IP54/NEMA12 66

Frequency Inverter DG13 phase, 208 V - 240 V, 11 A / 12.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12 68

Frequency Inverter DG13 phase, 208 V - 240 V, 12.5 A / 17.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12 70

Frequency Inverter DG13 phase, 208 V - 240 V, 17.5 A / 25 A, EMC-Filter, Brake Transistor, IP54/NEMA12 72

Frequency Inverter DG13 phase, 208 V - 240 V, 25 A / 31 A, EMC-Filter, Brake Transistor, IP54/NEMA12 74

Frequency Inverter DG13 phase, 208 V - 240 V, 31 A / 48 A, EMC-Filter, Brake Transistor, IP54/NEMA12 76

Frequency Inverter DG13 phase, 208 V - 240 V, 48 A / 61 A, EMC-Filter, Brake Transistor, IP54/NEMA12 78

Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, Brake Transistor, IP54/NEMA12 80

Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, Brake Transistor, IP54/NEMA12 82

Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, Brake Transistor, IP54/NEMA12 84

Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, Brake Transistor, IP54/NEMA12 86

Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, Brake Transistor, IP54/NEMA12 88

Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, Brake Transistor, IP54/NEMA12 90

Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, Brake Transistor, IP54/NEMA12 92

Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, Brake Transistor, IP54/NEMA12 94

Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, IP54/NEMA12 96

Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, IP54/NEMA12 98

Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, IP54/NEMA12 100

Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, IP54/NEMA12 102

Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, IP54/NEMA12 104

Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, IP54/NEMA12 106

Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, IP54/NEMA12 108

Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, IP54/NEMA12 110

Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, EMC-Filter, Brake Transistor, IP21/NEMA1 112

Frequency Inverter DG13 phase, 380 V - 500 V, 3.3 A / 4.3 A, EMC-Filter, Brake Transistor, IP21/NEMA1 114

Frequency Inverter DG13 phase, 380 V - 500 V, 4.3 A / 5.6 A, EMC-Filter, Brake Transistor, IP21/NEMA1 116

Frequency Inverter DG13 phase, 380 V - 500 V, 5.6 A / 7.6 A, EMC-Filter, Brake Transistor, IP21/NEMA1 118

Frequency Inverter DG13 phase, 380 V - 500 V, 7.6 A / 9 A, EMC-Filter, Brake Transistor, IP21/NEMA1 120

Frequency Inverter DG13 phase, 380 V - 500 V, 9 A / 12 A, EMC-Filter, Brake Transistor, IP21/NEMA1 122

Frequency Inverter DG13 phase, 380 V - 500 V, 12 A / 16 A, EMC-Filter, Brake Transistor, IP21/NEMA1 124

Frequency Inverter DG13 phase, 380 V - 500 V, 16 A / 23 A, EMC-Filter, Brake Transistor, IP21/NEMA1 126

Frequency Inverter DG13 phase, 380 V - 500 V, 23 A / 31 A, EMC-Filter, Brake Transistor, IP21/NEMA1 128

Frequency Inverter DG13 phase, 380 V - 500 V, 31 A / 38 A, EMC-Filter, Brake Transistor, IP21/NEMA1 130

Frequency Inverter DG13 phase, 380 V - 500 V, 38 A / 46 A, EMC-Filter, Brake Transistor, IP21/NEMA1 132

Frequency Inverter DG13 phase, 380 V - 500 V, 46 A / 61 A, EMC-Filter, Brake Transistor, IP21/NEMA1 134

Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, Brake Transistor, IP21/NEMA1 136

Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, Brake Transistor, IP21/NEMA1 138

Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, Brake Transistor, IP21/NEMA1 140

Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, Brake Transistor, IP21/NEMA1 142

Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, Brake Transistor, IP21/NEMA1 144

Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, Brake Transistor, IP21/NEMA1 146

Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, Brake Transistor, IP21/NEMA1 148

Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, Brake Transistor, IP21/NEMA1 150

Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, IP21/NEMA1 152

Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, IP21/NEMA1 154

Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, IP21/NEMA1 156

Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, IP21/NEMA1 158

Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, IP21/NEMA1 160

Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, IP21/NEMA1 162

Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, IP21/NEMA1 164

Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, IP21/NEMA1 166

Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, EMC-Filter, Brake Transistor, IP54/NEMA12 168

Frequency Inverter DG13 phase, 380 V - 500 V, 3.3 A / 4.3 A, EMC-Filter, Brake Transistor, IP54/NEMA12 170

Frequency Inverter DG13 phase, 380 V - 500 V, 4.3 A / 5.6 A, EMC-Filter, Brake Transistor, IP54/NEMA12 172

Frequency Inverter DG13 phase, 380 V - 500 V, 5.6 A / 7.6 A, EMC-Filter, Brake Transistor, IP54/NEMA12 174

Frequency Inverter DG13 phase, 380 V - 500 V, 7.6 A / 9 A, EMC-Filter, Brake Transistor, IP54/NEMA12 176

Frequency Inverter DG13 phase, 380 V - 500 V, 9 A / 12 A, EMC-Filter, Brake Transistor, IP54/NEMA12 178

Frequency Inverter DG13 phase, 380 V - 500 V, 12 A / 16 A, EMC-Filter, Brake Transistor, IP54/NEMA12 180

Frequency Inverter DG13 phase, 380 V - 500 V, 16 A / 23 A, EMC-Filter, Brake Transistor, IP54/NEMA12 182

Frequency Inverter DG13 phase, 380 V - 500 V, 23 A / 31 A, EMC-Filter, Brake Transistor, IP54/NEMA12 184

Frequency Inverter DG13 phase, 380 V - 500 V, 31 A / 38 A, EMC-Filter, Brake Transistor, IP54/NEMA12 186

Frequency Inverter DG13 phase, 380 V - 500 V, 38 A / 46 A, EMC-Filter, Brake Transistor, IP54/NEMA12 188

Frequency Inverter DG13 phase, 380 V - 500 V, 46 A / 61 A, EMC-Filter, Brake Transistor, IP54/NEMA12 190

Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, Brake Transistor, IP54/NEMA12 192

Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, Brake Transistor, IP54/NEMA12 194

Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, Brake Transistor, IP54/NEMA12 196

Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, Brake Transistor, IP54/NEMA12 198

Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, Brake Transistor, IP54/NEMA12 200

Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, Brake Transistor, IP54/NEMA12 202

Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, Brake Transistor, IP54/NEMA12 204

Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, Brake Transistor, IP54/NEMA12 206

Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, IP54/NEMA12 208

Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, IP54/NEMA12 210

Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, IP54/NEMA12 212

Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, IP54/NEMA12 214

Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, IP54/NEMA12 216

Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, IP54/NEMA12 218

Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, IP54/NEMA12 220

Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, IP54/NEMA12 222

Frequency Inverter DG13 phase, 500 V - 600 V, 3.3 A / 4.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1 224

Frequency Inverter DG13 phase, 500 V - 600 V, 4.5 A / 7.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1 226

Frequency Inverter DG13 phase, 500 V - 600 V, 7.5 A / 10 A, EMC-Filter, Brake Transistor, IP21/NEMA1 228

Frequency Inverter DG13 phase, 500 V - 600 V, 10 A / 13.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1 230

Frequency Inverter DG13 phase, 500 V - 600 V, 13.5 A / 18 A, EMC-Filter, Brake Transistor, IP21/NEMA1 232

Frequency Inverter DG13 phase, 500 V - 600 V, 18 A / 22 A, EMC-Filter, Brake Transistor, IP21/NEMA1 234

Frequency Inverter DG13 phase, 500 V - 600 V, 22 A / 27 A, EMC-Filter, Brake Transistor, IP21/NEMA1 236

Frequency Inverter DG13 phase, 500 V - 600 V, 27 A / 34 A, EMC-Filter, Brake Transistor, IP21/NEMA1 238

Frequency Inverter DG13 phase, 500 V - 600 V, 34 A / 41 A, EMC-Filter, Brake Transistor, IP21/NEMA1 240

Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, Brake Transistor, IP21/NEMA1 242

Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, Brake Transistor, IP21/NEMA1 244

Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, Brake Transistor, IP21/NEMA1 246

Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, Brake Transistor, IP21/NEMA1 248

Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, Brake Transistor, IP21/NEMA1 250

Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, Brake Transistor, IP21/NEMA1 252

Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, Brake Transistor, IP21/NEMA1 254

Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, Brake Transistor, IP21/NEMA1 256

Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, IP21/NEMA1 258

Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, IP21/NEMA1 260

Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, IP21/NEMA1 262

Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, IP21/NEMA1 264

Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, IP21/NEMA1 266

Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, IP21/NEMA1 268

Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, IP21/NEMA1 270

Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, IP21/NEMA1 272

Frequency Inverter DG13 phase, 500 V - 600 V, 3.3 A / 4.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12 274

Frequency Inverter DG13 phase, 500 V - 600 V, 4.5 A / 7.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12 276

Frequency Inverter DG13 phase, 500 V - 600 V, 7.5 A / 10 A, EMC-Filter, Brake Transistor, IP54/NEMA12 278

Frequency Inverter DG13 phase, 500 V - 600 V, 10 A / 13.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12 280

Frequency Inverter DG13 phase, 500 V - 600 V, 13.5 A / 18 A, EMC-Filter, Brake Transistor, IP54/NEMA12 282

Frequency Inverter DG13 phase, 500 V - 600 V, 18 A / 22 A, EMC-Filter, Brake Transistor, IP54/NEMA12 284

Frequency Inverter DG13 phase, 500 V - 600 V, 22 A / 27 A, EMC-Filter, Brake Transistor, IP54/NEMA12 286

Frequency Inverter DG13 phase, 500 V - 600 V, 27 A / 34 A, EMC-Filter, Brake Transistor, IP54/NEMA12 288

Frequency Inverter DG13 phase, 500 V - 600 V, 34 A / 41 A, EMC-Filter, Brake Transistor, IP54/NEMA12 290

Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, Brake Transistor, IP54/NEMA12 292

Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, Brake Transistor, IP54/NEMA12 294

Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, Brake Transistor, IP54/NEMA12 296

Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, Brake Transistor, IP54/NEMA12 298

Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, Brake Transistor, IP54/NEMA12 300

Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, Brake Transistor, IP54/NEMA12 302

Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, Brake Transistor, IP54/NEMA12 304

Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, Brake Transistor, IP54/NEMA12 306

Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, IP54/NEMA12 308

Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, IP54/NEMA12 310

Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, IP54/NEMA12 312

Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, IP54/NEMA12 314

Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, IP54/NEMA12 316

Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, IP54/NEMA12 318

Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, IP54/NEMA12 320

Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, IP54/NEMA12 322

Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, EMC-Filter, IP20/NEMA0 324

Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, IP20/NEMA0 326

# Frequency Inverter DG13 phase, 208 V - 240 V, 3.7 A / 4.8 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 3.7 / 4.8 |
| Motor power [kW]: | .75 / 1.1 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 96.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-323D7FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 4.8 A / 6.6 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 4.8 / 6.6 |
| Motor power [kW]: | 1.1 / 1.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 96.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-324D8FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 6.6 A / 7.8 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 6.6 / 7.8 |
| Motor power [kW]: | 1.5 / 1.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 96.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-326D6FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 7.8 A / 11 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 7.8 / 11 |
| Motor power [kW]: | 1.5 / 2.2 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 96.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-327D8FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 11 A / 12.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 11 / 12.5 |
| Motor power [kW]: | 2.2 / 3 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 96.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32011FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 12.5 A / 17.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 12.5 / 17.5 |
| Motor power [kW]: | 3 / 4 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32012FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 17.5 A / 25 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 17.5 / 25 |
| Motor power [kW]: | 4 / 5.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32017FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 25 A / 31 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 25 / 31 |
| Motor power [kW]: | 5.5 / 7.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32025FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 31 A / 48 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 31 / 48 |
| Motor power [kW]: | 7.5 / 11 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32031FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 48 A / 61 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 48 / 61 |
| Motor power [kW]: | 11 / 15 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32048FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 61 / 75 |
| Motor power [kW]: | 15 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32061FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 75 / 88 |
| Motor power [kW]: | 22 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32075FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 88 / 114 |
| Motor power [kW]: | 22 / 30 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32088FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 114 / 143 |
| Motor power [kW]: | 30 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 73.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32114FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 143 / 170 |
| Motor power [kW]: | 45 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 73.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32143FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 170 / 211 |
| Motor power [kW]: | 45 / 55 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 73.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32170FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 211 / 261 |
| Motor power [kW]: | 55 / 75 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 109kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32211FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 248 / 312 |
| Motor power [kW]: | 75 / 90 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 109kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32248FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 61 / 75 |
| Motor power [kW]: | 15 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32061FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 75 / 88 |
| Motor power [kW]: | 22 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32075FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 88 / 114 |
| Motor power [kW]: | 22 / 30 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.4 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32088FN-C21C |
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| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 114 / 143 |
| Motor power [kW]: | 30 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 68.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32114FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 143 / 170 |
| Motor power [kW]: | 45 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 68.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32143FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 170 / 211 |
| Motor power [kW]: | 45 / 55 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 68.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32170FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 211 / 261 |
| Motor power [kW]: | 55 / 75 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 108.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32211FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 248 / 312 |
| Motor power [kW]: | 75 / 90 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 108.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32248FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 3.7 A / 4.8 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 3.7 / 4.8 |
| Motor power [kW]: | .75 / 1.1 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-323D7FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 4.8 A / 6.6 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 4.8 / 6.6 |
| Motor power [kW]: | 1.1 / 1.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-324D8FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 6.6 A / 7.8 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 6.6 / 7.8 |
| Motor power [kW]: | 1.5 / 1.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-326D6FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 7.8 A / 11 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 7.8 / 11 |
| Motor power [kW]: | 1.5 / 2.2 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-327D8FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 11 A / 12.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 11 / 12.5 |
| Motor power [kW]: | 2.2 / 3 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32011FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 12.5 A / 17.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 12.5 / 17.5 |
| Motor power [kW]: | 3 / 4 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32012FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 17.5 A / 25 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 17.5 / 25 |
| Motor power [kW]: | 4 / 5.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32017FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 25 A / 31 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 25 / 31 |
| Motor power [kW]: | 5.5 / 7.5 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32025FB-C54C |
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| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 31 A / 48 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 31 / 48 |
| Motor power [kW]: | 7.5 / 11 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32031FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 48 A / 61 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 48 / 61 |
| Motor power [kW]: | 11 / 15 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32048FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 61 / 75 |
| Motor power [kW]: | 15 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32061FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 75 / 88 |
| Motor power [kW]: | 22 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32075FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 88 / 114 |
| Motor power [kW]: | 22 / 30 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32088FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 114 / 143 |
| Motor power [kW]: | 30 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 73.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32114FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 143 / 170 |
| Motor power [kW]: | 45 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 73.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32143FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 170 / 211 |
| Motor power [kW]: | 45 / 55 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 73.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32170FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 211 / 261 |
| Motor power [kW]: | 55 / 75 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 109kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32211FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 248 / 312 |
| Motor power [kW]: | 75 / 90 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 109kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32248FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 61 A / 75 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 61 / 75 |
| Motor power [kW]: | 15 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32061FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 75 A / 88 A, EMC-Filter, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 75 / 88 |
| Motor power [kW]: | 22 / 22 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32075FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 88 A / 114 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 88 / 114 |
| Motor power [kW]: | 22 / 30 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32088FN-C54C |
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| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 114 A / 143 A, EMC-Filter, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 114 / 143 |
| Motor power [kW]: | 30 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 68.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32114FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 208 V - 240 V, 143 A / 170 A, EMC-Filter, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 143 / 170 |
| Motor power [kW]: | 45 / 45 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 68.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32143FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 170 A / 211 A, EMC-Filter, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 170 / 211 |
| Motor power [kW]: | 45 / 55 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 68.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32170FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 211 A / 261 A, EMC-Filter, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 211 / 261 |
| Motor power [kW]: | 55 / 75 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 108.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32211FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 208 V - 240 V, 248 A / 312 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-90kW@230V, 0,75HP-125HP@230V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Output voltage [V]: | 3 x 208 (-15%) - 240 (+10%) |
| Nominal Current [A]: | 248 / 312 |
| Motor power [kW]: | 75 / 90 bei 230 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 108.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-32248FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 2.2 / 3.3 |
| Motor power [kW]: | .75 / 1.1 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-342D2FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 3.3 A / 4.3 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 3.3 / 4.3 |
| Motor power [kW]: | 1.1 / 1.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-343D3FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 4.3 A / 5.6 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 4.3 / 5.6 |
| Motor power [kW]: | 1.5 / 2.2 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-344D3FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 5.6 A / 7.6 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 5.6 / 7.6 |
| Motor power [kW]: | 2.2 / 3 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-345D6FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 7.6 A / 9 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 7.6 / 9 |
| Motor power [kW]: | 3 / 4 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-347D6FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 9 A / 12 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 9 / 12 |
| Motor power [kW]: | 4 / 5.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-349D0FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 12 A / 16 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 12 / 16 |
| Motor power [kW]: | 5.5 / 7.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34012FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 16 A / 23 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 16 / 23 |
| Motor power [kW]: | 7.5 / 11 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34016FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 23 A / 31 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 23 / 31 |
| Motor power [kW]: | 11 / 15 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34023FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 31 A / 38 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 31 / 38 |
| Motor power [kW]: | 15 / 18.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34031FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 38 A / 46 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 38 / 46 |
| Motor power [kW]: | 18.5 / 22 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34038FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 46 A / 61 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 46 / 61 |
| Motor power [kW]: | 22 / 30 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34046FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 61 / 72 |
| Motor power [kW]: | 30 / 37 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.8kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34061FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 72 / 87 |
| Motor power [kW]: | 37 / 45 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.8kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34072FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 87 / 105 |
| Motor power [kW]: | 45 / 55 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.8kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34087FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 105 / 140 |
| Motor power [kW]: | 55 / 75 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 75.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34105FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 140 / 170 |
| Motor power [kW]: | 75 / 90 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 75.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34140FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 170 / 205 |
| Motor power [kW]: | 90 / 110 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 75.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34170FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 205 / 261 |
| Motor power [kW]: | 110 / 132 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 114.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34205FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 245 / 310 |
| Motor power [kW]: | 132 / 160 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 114.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34245FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 61 / 72 |
| Motor power [kW]: | 30 / 37 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34061FN-C21C |
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| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 72 / 87 |
| Motor power [kW]: | 37 / 45 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34072FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 87 / 105 |
| Motor power [kW]: | 45 / 55 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34087FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 105 / 140 |
| Motor power [kW]: | 55 / 75 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34105FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 140 / 170 |
| Motor power [kW]: | 75 / 90 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34140FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 170 / 205 |
| Motor power [kW]: | 90 / 110 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34170FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 205 / 261 |
| Motor power [kW]: | 110 / 132 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 113.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34205FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 245 / 310 |
| Motor power [kW]: | 132 / 160 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 113.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34245FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 2.2 / 3.3 |
| Motor power [kW]: | .75 / 1.1 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-342D2FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 3.3 A / 4.3 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 3.3 / 4.3 |
| Motor power [kW]: | 1.1 / 1.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-343D3FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 4.3 A / 5.6 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 4.3 / 5.6 |
| Motor power [kW]: | 1.5 / 2.2 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-344D3FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 5.6 A / 7.6 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 5.6 / 7.6 |
| Motor power [kW]: | 2.2 / 3 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-345D6FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 7.6 A / 9 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 7.6 / 9 |
| Motor power [kW]: | 3 / 4 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-347D6FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 9 A / 12 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 9 / 12 |
| Motor power [kW]: | 4 / 5.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-349D0FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 12 A / 16 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 12 / 16 |
| Motor power [kW]: | 5.5 / 7.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34012FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 16 A / 23 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 16 / 23 |
| Motor power [kW]: | 7.5 / 11 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34016FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 23 A / 31 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 23 / 31 |
| Motor power [kW]: | 11 / 15 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 10.7kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34023FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 31 A / 38 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 31 / 38 |
| Motor power [kW]: | 15 / 18.5 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34031FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 38 A / 46 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 38 / 46 |
| Motor power [kW]: | 18.5 / 22 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34038FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 46 A / 61 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 46 / 61 |
| Motor power [kW]: | 22 / 30 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34046FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 61 / 72 |
| Motor power [kW]: | 30 / 37 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.8kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34061FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 72 / 87 |
| Motor power [kW]: | 37 / 45 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.8kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34072FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 87 / 105 |
| Motor power [kW]: | 45 / 55 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.8kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34087FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 105 / 140 |
| Motor power [kW]: | 55 / 75 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 75.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34105FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 140 / 170 |
| Motor power [kW]: | 75 / 90 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 75.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34140FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 170 / 205 |
| Motor power [kW]: | 90 / 110 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 75.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34170FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 205 / 261 |
| Motor power [kW]: | 110 / 132 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 114.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34205FB-C54C |
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| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 245 / 310 |
| Motor power [kW]: | 132 / 160 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 114.3kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34245FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 380 V - 500 V, 61 A / 72 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 61 / 72 |
| Motor power [kW]: | 30 / 37 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34061FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 72 A / 87 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 72 / 87 |
| Motor power [kW]: | 37 / 45 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34072FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 87 A / 105 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 87 / 105 |
| Motor power [kW]: | 45 / 55 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 35.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34087FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 105 A / 140 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 105 / 140 |
| Motor power [kW]: | 55 / 75 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34105FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 140 A / 170 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 140 / 170 |
| Motor power [kW]: | 75 / 90 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34140FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 170 A / 205 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 170 / 205 |
| Motor power [kW]: | 90 / 110 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 3,6 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34170FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 205 A / 261 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 205 / 261 |
| Motor power [kW]: | 110 / 132 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 113.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34205FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 245 A / 310 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 245 / 310 |
| Motor power [kW]: | 132 / 160 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.9 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 2 kHz, adjustable 1 - 10 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 113.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-34245FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 3.3 A / 4.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 3.3 / 4.5 |
| Motor power [kW]: | 1.5 / 2.2 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-353D3FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 4.5 A / 7.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 4.5 / 7.5 |
| Motor power [kW]: | 2.2 / 4 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-354D5FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 7.5 A / 10 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 7.5 / 10 |
| Motor power [kW]: | 4 / 5.5 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-357D5FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 10 A / 13.5 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 10 / 13.5 |
| Motor power [kW]: | 5.5 / 7.5 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 11.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35010FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 500 V - 600 V, 13.5 A / 18 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 13.5 / 18 |
| Motor power [kW]: | 7.5 / 11 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 11.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35013FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 18 A / 22 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 18 / 22 |
| Motor power [kW]: | 11 / 11 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 11.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35018FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 22 A / 27 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 22 / 27 |
| Motor power [kW]: | 11 / 15 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35022FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 27 A / 34 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 27 / 34 |
| Motor power [kW]: | 15 / 22 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35027FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 34 A / 41 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 34 / 41 |
| Motor power [kW]: | 22 / 22 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35034FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 41 / 52 |
| Motor power [kW]: | 22 / 30 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35041FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 52 / 62 |
| Motor power [kW]: | 30 / 37 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35052FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 62 / 80 |
| Motor power [kW]: | 37 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35062FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 80 / 100 |
| Motor power [kW]: | 55 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 76.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35080FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, Brake Transistor, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 100 / 125 |
| Motor power [kW]: | 55 / 75 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 76.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35100FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 125 / 144 |
| Motor power [kW]: | 75 / 90 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 76.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35125FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 144 / 208 |
| Motor power [kW]: | 90 / 132 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 117.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35144FB-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, Brake Transistor, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 208 / 250 |
| Motor power [kW]: | 132 / 160 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 117.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35208FB-C21C |
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| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 41 / 52 |
| Motor power [kW]: | 22 / 30 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35041FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 52 / 62 |
| Motor power [kW]: | 30 / 37 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35052FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 62 / 80 |
| Motor power [kW]: | 37 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35062FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, IP21/NEMA1

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 80 / 100 |
| Motor power [kW]: | 55 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35080FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 100 / 125 |
| Motor power [kW]: | 55 / 75 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35100FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, IP21/NEMA1

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 125 / 144 |
| Motor power [kW]: | 75 / 90 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35125FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 144 / 208 |
| Motor power [kW]: | 90 / 132 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 116.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35144FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, IP21/NEMA1

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 208 / 250 |
| Motor power [kW]: | 132 / 160 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP21/NEMA1 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 116.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35208FN-C21C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 3.3 A / 4.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 3.3 / 4.5 |
| Motor power [kW]: | 1.5 / 2.2 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-353D3FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 4.5 A / 7.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 4.5 / 7.5 |
| Motor power [kW]: | 2.2 / 4 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-354D5FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 7.5 A / 10 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 7.5 / 10 |
| Motor power [kW]: | 4 / 5.5 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.1 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-357D5FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 10 A / 13.5 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 10 / 13.5 |
| Motor power [kW]: | 5.5 / 7.5 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 11.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35010FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 13.5 A / 18 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 13.5 / 18 |
| Motor power [kW]: | 7.5 / 11 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 11.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35013FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 18 A / 22 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 18 / 22 |
| Motor power [kW]: | 11 / 11 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.2 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS2 |
| Dimensions: | 419mm x 167.8mm x 244.7mm |
| Weight: | 11.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35018FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 22 A / 27 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 22 / 27 |
| Motor power [kW]: | 11 / 15 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35022FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 27 A / 34 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 27 / 34 |
| Motor power [kW]: | 15 / 22 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35027FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 34 A / 41 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 34 / 41 |
| Motor power [kW]: | 22 / 22 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 97.7 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS3 |
| Dimensions: | 558mm x 204.6mm x 265.1mm |
| Weight: | 22.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35034FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 41 / 52 |
| Motor power [kW]: | 22 / 30 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35041FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 52 / 62 |
| Motor power [kW]: | 30 / 37 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35052FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 62 / 80 |
| Motor power [kW]: | 37 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.5kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35062FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 80 / 100 |
| Motor power [kW]: | 55 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 76.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35080FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 100 / 125 |
| Motor power [kW]: | 55 / 75 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 76.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35100FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, Brake Transistor, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 125 / 144 |
| Motor power [kW]: | 75 / 90 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 76.2kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35125FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 144 / 208 |
| Motor power [kW]: | 90 / 132 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 117.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35144FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, Brake Transistor, IP54/NEMA12

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| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 208 / 250 |
| Motor power [kW]: | 132 / 160 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | Yes |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 117.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35208FB-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 41 A / 52 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 41 / 52 |
| Motor power [kW]: | 22 / 30 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35041FN-C54C |
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| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 500 V - 600 V, 52 A / 62 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 52 / 62 |
| Motor power [kW]: | 30 / 37 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35052FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
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# Frequency Inverter DG13 phase, 500 V - 600 V, 62 A / 80 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 62 / 80 |
| Motor power [kW]: | 37 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.3 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS4 |
| Dimensions: | 630mm x 237.7mm x 294mm |
| Weight: | 34.1kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35062FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 80 A / 100 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 80 / 100 |
| Motor power [kW]: | 55 / 55 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35080FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 100 A / 125 A, EMC-Filter, IP54/NEMA12

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| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 100 / 125 |
| Motor power [kW]: | 55 / 75 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35100FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 125 A / 144 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 125 / 144 |
| Motor power [kW]: | 75 / 90 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.6 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS5 |
| Dimensions: | 888.5mm x 288mm x 340.7mm |
| Weight: | 70.9kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35125FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 144 A / 208 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 144 / 208 |
| Motor power [kW]: | 90 / 132 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 116.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35144FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 500 V - 600 V, 208 A / 250 A, EMC-Filter, IP54/NEMA12

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 1,5kW-160kW@500V, 2HP-250HP@600V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Output voltage [V]: | 3 x 500 (-10%) - 600 (+10%) |
| Nominal Current [A]: | 208 / 250 |
| Motor power [kW]: | 132 / 160 bei 500 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 98.5 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | Yes |
| Degree of Protection: | IP54/NEMA12 |
| Switching frequency: | 1,5 kHz, adjustable 1 - 6 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS6 |
| Dimensions: | 1035mm x 486mm x 371mm |
| Weight: | 116.6kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-35208FN-C54C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, EMC-Filter, IP20/NEMA0

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 2.2 / 3.3 |
| Motor power [kW]: | .75 / 1.1 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 0 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | C1 = external Filter, C2 ≤ 10m, C3 ≤ 50m, DG1-35..: C3 ≤ 10 m |
|  | C1 (with external Filer, only conducted emissions), C2, C3; dependent on motor wire lenght, power and Ambient. Eventually external Filters (option) required. |
| internal Brake Chopper: | No |
| Display: | No |
| Degree of Protection: | IP20/NEMA0 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-342D2EN-N20C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |

# Frequency Inverter DG13 phase, 380 V - 500 V, 2.2 A / 3.3 A, IP20/NEMA0

|  |  |
| --- | --- |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |
| Accessories: • EMC filters for C1 • mains chokes • motor chokes • sine filters for motor wires up to 500m screened • all pole sine filters for motor wires above 100m, compliant with EMC class C2 up to 1000m with unscreened motor wires and internal EMC filter. • Braking resistors for up to 40%ED • Communikation wires to parameterize via PC or Laptop • Unified, device independent engineering and commissioning software PowerXpert inControl | |
| Motor Control Modes: | V/f control, Speed control with Slip compensation, sensorless vector control (SLV), Torque control |
| Supply voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Output voltage [V]: | 3 x 380 (-15%) - 500 (+10%) |
| Nominal Current [A]: | 2.2 / 3.3 |
| Motor power [kW]: | .75 / 1.1 bei 400 V, 50 Hz |
| max. Overload: | 200%, for 2 seconds , all 20 seconds |
| Efficiency [%]: | 0 |
| rated short circuit current (SCCR) [kA]: | 100 |
| internal EMC Filter: | No |
| internal Brake Chopper: | No |
| Display: | No |
| Degree of Protection: | IP20/NEMA0 |
| Switching frequency: | 4 kHz, adjustable 1 - 12 kHz |
| Coated boards: | 3C2, 3S2 |
| Temerature Range |  |
| Overload 1.1 x IL (1 min./10 min.): | –30°C to 40°C, up to 55°C with derating 1%/K |
| Overload 1.5 x IH (1 min./10 min.): | –30°C to 50°C, up to 60°C with derating 1%/K |
| Extension Slots: | 2 |
| Frame Size: | FS1 |
| Dimensions: | 327mm x 153mm x 200.9mm |
| Weight: | 6.4kg |
| Digital Inputs: | 8, programmable, max. 30V DC |
| Digital Outputs: | 1, programmable, 24 V DC |
| Relay Outputs: | 3, programmable, 2 Form C and 1 NO, 6 A (240 V AC) / 6 A (24 V DC) |
| Analog Inputs: | 2, programmable, 0 - 10 V, 2 - 10 V, -10 - +10 V, 0/4 - 20 mA |
| Analog Outputs: | 2, programmable, 0 - 10 V, 0/4 - 20 mA |
| Manufacturer / Typ: | Eaton / DG1-342D2NN-N20C |
|  |  |
| Quantity of Devices |  |
| Commisioning |  |
|  |  |
| Compact Invertersystem for 3 phase asynchronous motors and a power range of 0,75kW-160kW@400V, 1HP-250HP@480V. • Safety integrated for safe machines and applications via STO (Safe Torque off). • Energiecost calculator for your energy management • Dynamic energy saving function (patentet) to minimize losses in the motor • Motor control modes:  • Sensorless Vector Control (SLV)  • V/f control, linear, squared, programmable  • Torque control • Integrated 5% DC link choke for effective reduction of harmonics in the supply network. • Kinetic Buffer via the DC-link. • Extensive communication via EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP on board, further networks like Profibus-DP, CANopen and others via option card. • Realtime clock with battery buffer for time controlled operations directly controlled by the inverter. • Dual Rating for normal and squared loads. • Parameters can be copied via the keypad and transferred to other inverters, each supporting two different sets of parameters • control of an exteranl bypass by the inverter • Fire Mode • Multi-Pump control for single master, multi master, multi-master-multi-follower • Derag function • cold wether mode for use down to -30°C • 2 free available PID controller for process control, cascadable • Protection functions with individual setting for the fault reaction on over voltage, under voltage, overload motor, ground fault, short circuit, stall protection, motor blockage, motor overtemperature, 3 external faults, parameter protection via password • internal oszilloscope function with 8 channels • CE marking according to the product standard EN61800 • UL marking according to UL508C • CSA marking according to CSA C22.2 No.274-13 • UkrSepro and EAC marking • compliant with european directives 2014/35/EU, 2014/30/EU and 2011/65/EU | |