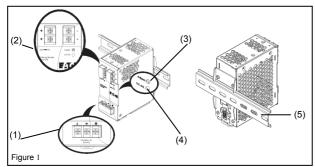
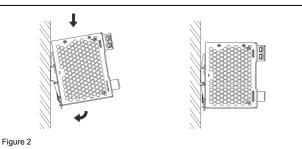
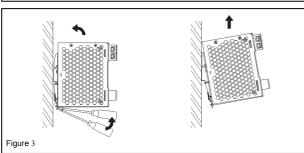


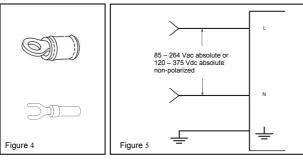
Installation Instructions for PSG120E POWER SUPPLY

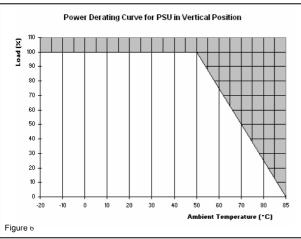
READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.











1. Safety instructions

- Switch main power off and wait 5 minutes before making any connection or disconnection on the device. Danger of explosion!
- Dangerous voltage present for at least 5 minutes after disconnecting all sources of power.
- For sufficient convection cooling keep a distance of 50 mm above and below the device as well as a lateral distance of 20 mm to other units.
- The enclosure of the device can become very hot depending on the ambient temperature and load of the power supply. Risk of burns!
- Do not introduce any objects into the unit!

- Device description (Fig. 1)
 (1) Input terminal block connector
 - (2) Output terminal block connector
 - (3) DC voltage adjustment potentiometer
 - (4) DC OK control LED (green)
 - (5) Universal mounting rail system

3. Mounting (Fig. 2)

The power supply unit can be mounted on 35 mm DIN rails in accordance with EN 60715. The device should be installed horizontally with input terminal blocks on the bottom. Each device is delivered ready to install

Snap on the DIN rail as shown in Fig. 2:

- 1. Tilt the unit slightly upwards and put it onto the DIN rail.
- 2. Push downwards until stopped.
- 3. Press against the bottom front side for locking.
- 4. Shake the unit slightly to ensure that it is secured.

4. Removal (Fig. 3)

To uninstall, pull or slide down the latch as shown in Fig. 3. Then, slide the PSU in the opposite direction, release the latch and pull out the PSU from the rail.

5. Connection

The terminal block connectors allow easy and fast wiring. A plastic cover provides the necessary isolation of the electric connection.

Use flexible (stranded wire) or solid cables 0.32-2.1 mm² (AWG 22-14) and torque of 0.78-0.98 Nm (6.94-8.68 lb in). The insulation stripping length should be 7 mm In accordance to EN 60950 / UL 60950, flexible cables require ferrules.

Use copper wire that is designed to sustain operating temperature of 75°C or more to fulfill UL requirements.

For stranded wires it is recommended to use suitable lug to crimp wires (See Fig. 4).

5.1. Input connection (Fig. 1and Fig. 5)

Refer to Figure 5 for input connections.

The device has an internal fuse. 6 A, 10 A or 16 A power circuit breakers are recommended as backup fuses.



The internal fuse must not be replaced by the user. In case of internal defect, Please call 1-877-ETN - CARE

5.2. Output connection (Fig. 1 (2))

Use the "+" and "-" screw connections to establish the 24 VDC connection. The output provides 24 VDC. The output voltage can be adjusted from 22 to 28 VDC on the potentiometer. The green LED DC OK displays correct function of the output (Fig. 1 (4)). The device has a short circuit and overload protection and an over voltage protection limited to 35 VDC

5.3. Output characteristic curve

The device functions normal under operating line and load conditions. In the event of a short circuit or over load the output voltage and current collapses ($I_{O/L}$ or $I_{S/C}$ is > I_{surg} (150%)). The secondary voltage is reduced and bounces/oscillates until short circuit or over load on the secondary side has been removed.

5.4. Thermal behavior (Fig. 6)

In the case of ambient temperatures above +50°C, the output capacity has to be reduced by 2.5% per increase in temperature. If the output capacity is not reduced when T_{Amb} > 50 °C device will run into thermal protection by switching off i.e. device will go in bouncing/oscillates mode and will recover when ambient temperature is lowered or load is reduced as far as necessary to keep device in working condition.

FOR TECHNICAL ASSISTANCE CALL 1 - 877- ETN - CARE



Input / output (type test/routine test)

Input / PE (type test/routine test)

Protection degree

Shock (in all directions)

Safety class

Output / PE (type test/routine test)

TECHNICAL DATA FOR PSG120E	
Input (AC)	
Nominal input voltage	100-240 VAC
Voltage range	85-264 VAC (DC input range 120-375 VDC)
Frequency	47-63 Hz (0 Hz @ DC input)
Nominal current	1.4 A @ 115 VAC, 0.8 A @ 230 VAC
Inrush current limitation. I ² t (+25 °C) typ.	< 80 A @ 115 VAC
Mains buffering at nominal load (typ.)	> 35 ms @ 115 VAC, > 70 ms @ 230 VAC
Turn-on time	< 1 sec.
Internal fuse	T 3.15 AH / 250 V
Recommended backup fuse	6 A, 10 A or 16 A
Power circuit-breaker characteristic	В
Leakage current	< 1 mA
Output (DC)	
Nominal output voltage UN / tolerance	24 VDC ± 2 %
Adjustment range of the voltage	22-28 VDC
Nominal current	5 A
Derating above +50 °C	2.5 % / K.
Startup with capacitive loads	Max. 10,000 μF
Max. power dissipation idling / nominal load approx.	22.5 W
Efficiency (at 400V AC and nominal values)	> 84 % typical
Residual ripple/ peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Parallel operation	With oring diode
General Data	
Type of housing	Aluminium (Al5052)
Signals	Green LED DC OK
MTBF	> 800,000 hrs.
Dimensions (L x W x H)	121 mm x 50 mm x 118. 2 mm
Weight	0.54 kg
Connection method	Screw connection
Stripping length	7 mm or use suitable lug to crimp
Operating temperature	-20 °C to +75°C (> 50°C derating)
Storage temperature	-25 °C to +85 °C
Storage temperature	
Humidity at +25 °C no condensation	
Humidity at +25 °C, no condensation	< 95 % RH
Humidity at +25 °C, no condensation Vibration (operating)	10 to 150 Hz, 0.35 mm acc. 50 m / s², single
Humidity at +25 °C, no condensation Vibration (operating)	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z
Vibration (operating)	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6
Vibration (operating) Pollution degree	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6
Vibration (operating) Pollution degree Climatic class	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6
Vibration (operating) Pollution degree Climatic class Certification and Standards	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III)
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950)
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark),
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1,
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment)	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CS scheme to IEC60950-1, CSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564)
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CS scheme to IEC60950-1, CSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CS scheme to IEC60950-1, CSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Vibration (operating) Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, CSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents Rohs Compliant	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, CSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant Safety and Protection	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CB scheme to IEC60950-1, CSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant Safety and Protection Transient surge voltage protection	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CS scheme to IEC60950-1, CCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2
Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents Rohs Compliant Safety and Protection Transient surge voltage protection Current limitation at short-circuits approx.	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CS scheme to IEC60950-1, and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2 VARISTOR I _{surge} = 150 % of Po _{max} typically
Pollution degree Climatic class Certification and Standards Electrical equipments of machines Electronic equipment for use in electrical power installations Safety entry low voltage Electrical safety (of information technology equipment) Industrial control equipment Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant Safety and Protection Transient surge voltage protection	10 to 150 Hz, 0.35 mm acc. 50 m / s², single amplitude (5 G max.) for 90 min. in each X, Y & Z directions, in acc. with IEC 68-2-6 2 3K3 according to EN 60721 IEC60204-1 (over voltage category III) EN 50178 / IEC62103 PELV (EN 60204), SELV (EN 60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No.60950-1, CS scheme to IEC60950-1, CCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL / C-UL listed to UL508 and CSA C22.2 No.107.1-01 CSA to CSA C22.2 No.107.1-01 (file no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN55022, EN61000-3-2, EN61000-3-3, EN55024 EN55011 EN61000-3-2

4 kVAC / 3 kVAC

IPX0

1.5 kVAC / 1.5 kVAC

1.5 kVAC / 500 VAC

Class I with PE connection

30 G (300 m/s²) in all directions according to IEC 68-2-27