



Product overview

DM1 and DM1 Pro – compact drives for universal use



Powering Business Worldwide

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Comprehensive and up-to-date information on our variable frequency drives is available in the Eaton online catalog.

WORLDWIDE English

EATON Powering Business Worldwide

DC1-S17D0NN-A20CE1 - Variable frequency drive, 115 V AC, single-phase, 7 A, 0.37 kW, IP20/NEMA 0, FS1

186073 DC1-S17D0NN-A20CE1

Overview Specifications Resources

DELIVERY PROGRAM

Product range Variable frequency drives

Part group reference (e.g. DIL) DC1

Rated operational voltage [U_N] 115 V AC, single-phase

Output voltage with V_N [U_N] 115 V AC, single-phase

Mains voltage (50/60Hz) [U_N] 110 (-10%) - 115 (+10%) V

Rated operational current [I_N]

HTML data sheets can be saved as PDFs

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Products Tools & Services Parts list

Parts list

Item	Qty	Photo	Part no.	Catalog no.	Short text	PE	Dec. year	Std. unit	Comments	Path	Accessories	Stock	Gross weight	Net weight	Length	Width	Height	
1	1		DC1-S17D0NN-A20CE1	38812	Variable frequency drive, 115 V AC, single-phase, 7 A, 0.37 kW, IP20/NEMA 0, FS1	1	1	1		30 GSD		85044004	1.300	1.200	kg	124.000	81.000	184.000
2	1		DC1-S17D0NN-B20CE1	38813	Variable frequency drive, 230 V AC, single-phase, 15 A, 2.2 kW, IP20/NEMA 0, FS1	1	1	1		30 GSD		85044004	4.900	4.800	kg	230.000	188.000	257.000

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Parts lists, for example for queries to the Eaton Sales Team

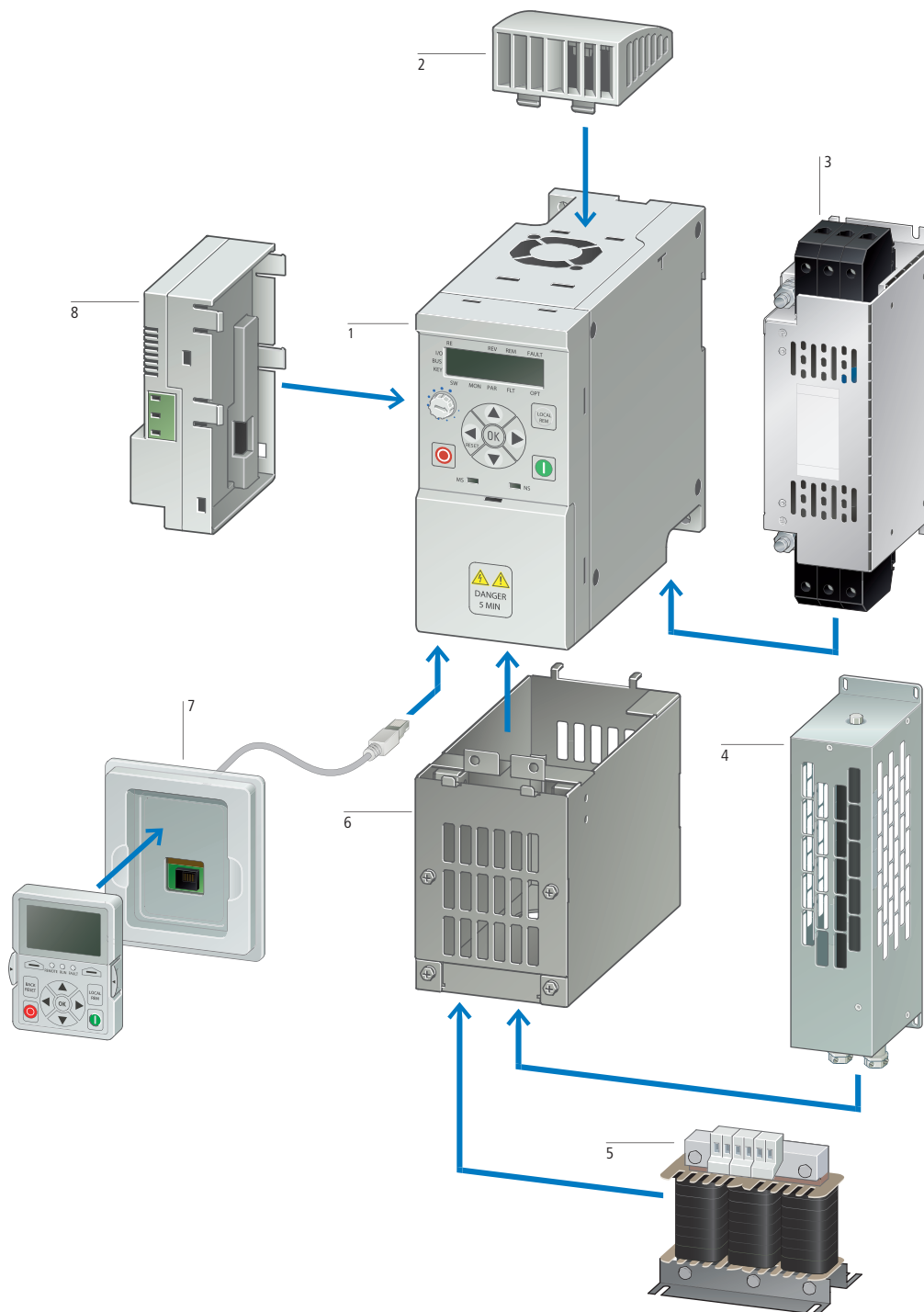




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PowerXL DM1 variable frequency drives

System overview



1) DM1 / DM1 Pro

2) + 6 NEMA1 / IP21 kits DXM-ACC...

3) EMC filters DX-EMC...

4) Brake resistors XC-BR...

5) Mains and motor chokes DX-LN.... and DX-LM...

6) NEMA1 kits DXG-ACC-FRxN1...

7) Remote keypad kit DXG-KEY-RMTKIT

8) Network interfaces DXM-NET...



DM1 and DM1 Pro – compact drives for universal use

Maximum functionality with a small footprint

The PowerXL DM1 variable frequency drive combines maximum functionality with a small footprint. It can be used wherever space is limited, but where the functionality of a standard universal drive is nevertheless required. This includes pump and HVAC applications as well as the control of conventional motors such as asynchronous or PM motors.

Safe (DM1 Pro)

Thanks to the built-in two-channel STO (SIL2, PLd, Cat. 3), no external contactor is required for safe torque-off. This is especially important for material-handling applications.

Power range

- 0.25 - 1.5 kW (115 V)
- 0.55 - 15 kW (230 V)
- 0.75 - 22 kW (400 V)
- 5 - 25 HP (575 V)

Integrated web server (DM1 Pro)

The integrated web server makes it possible to configure and operate the device without the need to install any additional software.

Bluetooth on board

The DM1 can also communicate with PowerXpert inControl via Bluetooth, without the need to open the control panel.

Multi-pump applications

The DM1 offers all the basic functions required for the smooth control and switching of booster pump applications in which several pumps are networked together.

Rugged

IP20 degree of protection, with optional IP21/NEMA1 kit; ambient temperature range: -30 °C (with cold weather function) to +50 °C (up to +60 °C with derating)

Measurements

Integrated energy measurement and energy cost calculator

Short-circuit protection without any upstream devices

For short-circuit protection up to 100 kA, no additional upstream devices (such as a line choke) are required. The maximum short-circuit current depends on the selected protection device:

- FAZ up to 14 kA
- PKZ up to 65 kA
- Fuses up to 100 kA

Accessories

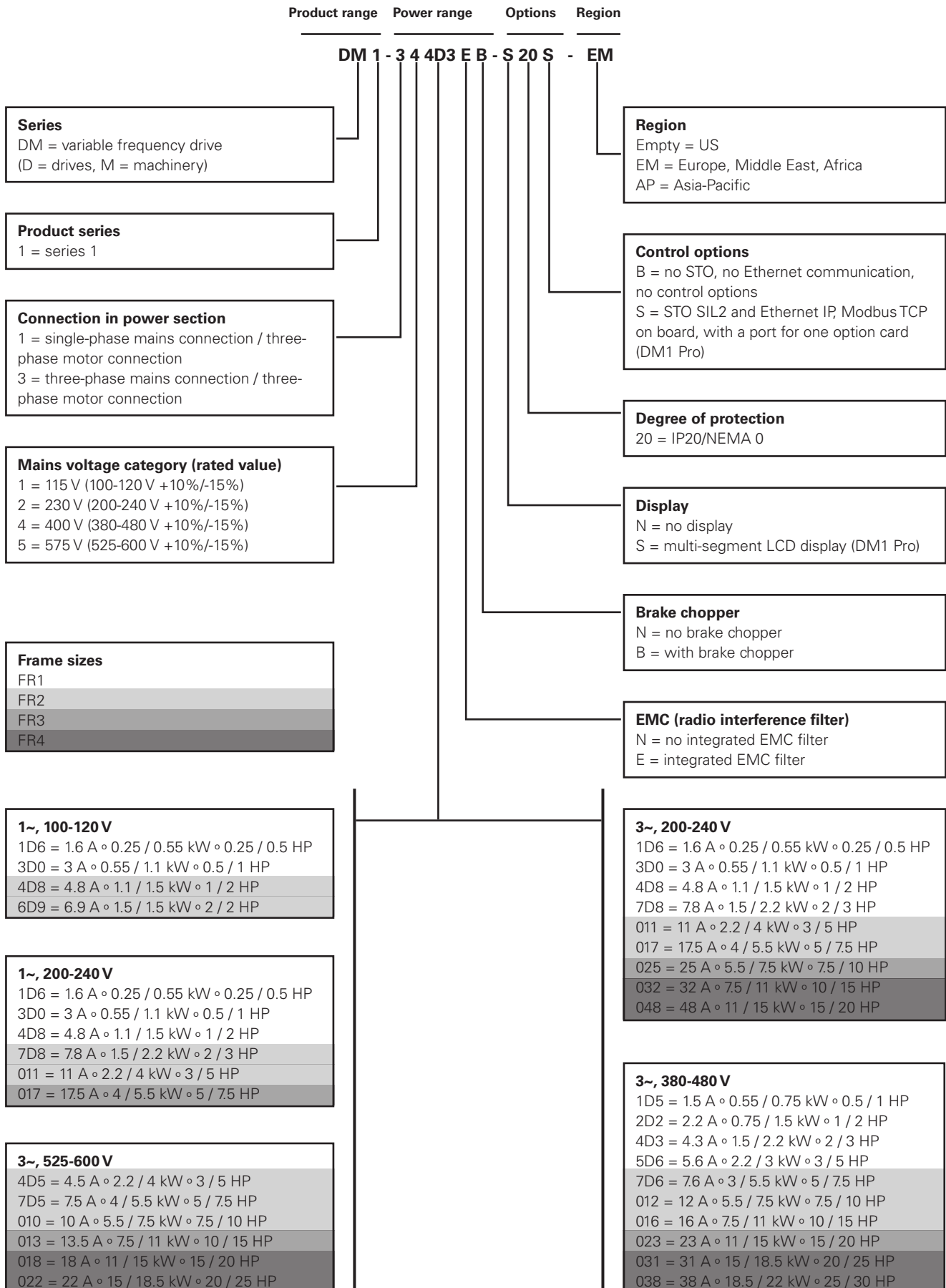
- Profibus interface
- CANopen interface
- IP21 / NEMA1 kit
- DG1 remote keypad

Applications

- Multi-pump applications
- Booster pumps
- Sprinklers
- Supply and exhaust fans
- Conveyor belts
- Compressors
- Roller and chain conveyors
- Screw conveyors
- Centrifuges
- Sawing
- Drilling
- Waterjet cutting

PowerXL DM1 variable frequency drives

Type code



The performance data are based on an overload cycle of 150% / 110%. At an overload cycle of 110%, the permissible ambient temperature is reduced to +40°C.

UL/CSA

Information for export to North America

Product standards	UL 508C, CSA-C22.2 No. 274-13; IEC/EN 61800-3; IEC/EN 61800-5; CE marking
UL file no.	E134360
UL category control no.	NMMS, NMMS7
CSA file no.	The UL report applies to both the US and Canada
North American certifications	UL listed, certified by UL for use in Canada
Suitable for	branch circuits
Max. voltage rating	3~240 V AC IEC: TN-S UL/CSA: 'Y' (solidly grounded wye) 3~500 V AC IEC: TN-S UL/CSA: 'Y' (solidly grounded wye)

Overview of the available frame sizes



PowerXL DM1 variable frequency drives

DM1 for three-phase motors, 230 V, three-phase

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Features	Frame size	Degree of protection	Part no.	Article no.	Std. pack
$I_n = 150%$ I_e			$I_n = 110%$ I_e			Radio interference filter Brake chopper 7-segment display					
A	kW	HP	A	kW	HP						

U_e 230 V AC, 3-phase / U₂ 230 V AC, 3-phase, without EMC filter

Mains voltage (50/60 Hz) U_{LN}: 200 (-15%) - 240 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	FS1	IP20/NEMA0	DM1-321D6NB-N20B-EM	3-5018-005A	1 piece
3	0.55	0.5	4.8	1.1	1	✓			DM1-323D0NB-N20B-EM	3-5018-006A	
4.8	1.1	1	7.8	1.5	2	✓			DM1-324D8NB-N20B-EM	3-5018-007A	
7.8	1.5	2	11	2.2	3	✓			DM1-327D8NB-N20B-EM	3-5018-008A	
11	2.2	3	17.5	4	5	✓	FS2		DM1-32011NB-N20B-EM	3-5020-003A	
17.5	4	5	25	5.5	7.5	✓			DM1-32017NB-N20B-EM	3-5020-004A	
25	5.5	7.5	32	7.5	10	✓	FS3		DM1-32025NB-N20B-EM	3-5022-002A	
32	7.5	10	48	11	15	✓	FS4		DM1-32032NB-N20B-EM	3-5024-003A	
48	11	15	61	15	20	✓			DM1-32048NB-N20B-EM	3-5024-004A	

U_e 230 V AC, 3-phase / U₂ 230 V AC, 3-phase, with EMC filter

Mains voltage (50/60 Hz) U_{LN}: 200 (-15%) - 240 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	✓	FS1	IP20/NEMA0	DM1-321D6EB-N20B-EM	3-5017-005A	1 piece
3	0.55	0.5	4.8	1.1	1	✓	✓			DM1-323D0EB-N20B-EM	3-5017-006A	
4.8	1.1	1	7.8	1.5	2	✓	✓			DM1-324D8EB-N20B-EM	3-5017-007A	
7.8	1.5	2	11	2.2	3	✓	✓			DM1-327D8EB-N20B-EM	3-5017-008A	
11	2.2	3	17.5	4	5	✓	✓	FS2		DM1-32011EB-N20B-EM	3-5019-003A	
17.5	4	5	25	5.5	7.5	✓	✓			DM1-32017EB-N20B-EM	3-5019-004A	
25	5.5	7.5	32	7.5	10	✓	✓	FS3		DM1-32025EB-N20B-EM	3-5021-002A	
32	7.5	10	48	11	15	✓	✓	FS4		DM1-32032EB-N20B-EM	3-5023-003A	
48	11	15	61	15	20	✓	✓			DM1-32048EB-N20B-EM	3-5023-004A	

Notes: ¹⁾ Overload cycle for 60 s every 600 s, 150% at 50°C ambient temperature, 110% at 40°C ambient temperature

²⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

³⁾ At 400 V, 50 Hz/at 480 V, 60 Hz

PowerXL DM1 variable frequency drives

DM1 for three-phase motors, 400 V, three-phase

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Features	Frame size	Degree of protection	Part no.	Article no.	Std. pack
$I_n = 150\%$ I_e	kW	HP	$I_n = 110\%$ I_e	kW	HP	Radio interference filter Brake chopper 7-segment display					

U_e 400 V AC, 3-phase / U₂ 400 V AC, 3-phase, without EMC filter

Mains voltage (50/60 Hz) U_{LN}: 380 (-15%) - 500 (+10%) V

1.5	0.55	0.5	2.2	0.75	1	✓	FS1	IP20/NEMA0	DM1-341D5NB-N20B-EM	3-5026-005A	1 piece
2.2	0.75	1	4.3	1.5	2	✓			DM1-342D2NB-N20B-EM	3-5026-006A	
4.3	1.5	2	5.6	2.2	3	✓			DM1-344D3NB-N20B-EM	3-5026-007A	
5.6	2.2	3	7.6	3	5	✓			DM1-345D6NB-N20B-EM	3-5026-008A	
7.6	3	5	12	5.5	7.5	✓	FS2		DM1-347D6NB-N20B-EM	3-5028-004A	
12	5.5	7.5	16	7.5	10	✓			DM1-34012NB-N20B-EM	3-5028-005A	
16	7.5	10	23	11	15	✓			DM1-34016NB-N20B-EM	3-5028-006A	
23	11	15	31	15	20	✓	FS3		DM1-34023NB-N20B-EM	3-5030-002A	
31	15	20	38	18.5	25	✓	FS4		DM1-34031NB-N20B-EM	3-5032-003A	
38	18.5	25	46	22	30	✓			DM1-34038NB-N20B-EM	3-5032-004A	

U_e 400 V AC, 3-phase / U₂ 400 V AC, 3-phase, with EMC filter

Mains voltage (50/60 Hz) U_{LN}: 380 (-15%) - 500 (+10%) V

1.5	0.55	0.5	2.2	0.75	1	✓	✓	FS1	IP20/NEMA0	DM1-341D5EB-N20B-EM	3-5025-005A	1 piece
2.2	0.75	1	4.3	1.5	2	✓	✓			DM1-342D2EB-N20B-EM	3-5025-006A	
4.3	1.5	2	5.6	2.2	3	✓	✓			DM1-344D3EB-N20B-EM	3-5025-007A	
5.6	2.2	3	7.6	3	5	✓	✓			DM1-345D6EB-N20B-EM	3-5025-008A	
7.6	3	5	12	5.5	7.5	✓	✓	FS2		DM1-347D6EB-N20B-EM	3-5027-004A	
12	5.5	7.5	16	7.5	10	✓	✓			DM1-34012EB-N20B-EM	3-5027-005A	
16	7.5	10	23	11	15	✓	✓			DM1-34016EB-N20B-EM	3-5027-006A	
23	11	15	31	15	20	✓	✓	FS3		DM1-34023EB-N20B-EM	3-5029-002A	
31	15	20	38	18.5	25	✓	✓	FS4		DM1-34031EB-N20B-EM	3-5031-003A	
38	18.5	25	46	22	30	✓	✓			DM1-34038EB-N20B-EM	3-5031-004A	

Notes: ¹⁾ Overload cycle for 60 s every 600 s, 150% at 50°C ambient temperature, 110% at 40°C ambient temperature

²⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

³⁾ At 400 V, 50 Hz/at 480 V, 60 Hz

PowerXL DM1 variable frequency drives

DM1 Pro for three-phase motors, 115 V / 230 V, single-phase

Rated operational current ¹⁾	Assigned motor rating ^{1),2),3)}		Rated operational current ¹⁾	Assigned motor rating ^{1),2),3)}		Features			Frame size	Degree of protection	Part no.	Article no.	Std. pack
$I_n = 150\%$ I_e A	kW	HP	$I_n = 110\%$ I_e A	kW	HP	Radio interference filter	Brake chopper	7-segment display					

U_e 115 V AC, 1-phase / U₂ 230 V AC, 3-phase, without EMC filter

Mains voltage (50/60 Hz) U_{LN}: 100 (-15%) - 120 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	✓		FS1	IP20/NEMA0	DM1-111D6NB-S20S-EM	3-5042-003A	1 piece
3	0.55	0.5	4.8	1.1	1	✓	✓				DM1-113D0NB-S20S-EM	3-5042-004A	
4.8	1.1	1	6.9	1.5	2	✓	✓		FS2		DM1-114D8NB-S20S-EM	3-5044-003A	
6.9	1.5	2	7.8	1.5	2	✓	✓				DM1-116D9NB-S20S-EM	3-5044-004A	

U_e 115 V AC, 1-phase / U₂ 230 V AC, 3-phase, with EMC filter

Mains voltage (50/60 Hz) U_{LN}: 100 (-15%) - 120 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	✓	✓	FS1	IP20/NEMA0	DM1-111D6EB-S20S-EM	3-5041-003A	1 piece
3	0.55	0.5	4.8	1.1	1	✓	✓	✓			DM1-113D0EB-S20S-EM	3-5041-004A	
4.8	1.1	1	6.9	1.5	2	✓	✓	✓	FS2		DM1-114D8EB-S20S-EM	3-5043-003A	
6.9	1.5	2	7.8	1.5	2	✓	✓	✓			DM1-116D9EB-S20S-EM	3-5043-004A	

U_e 230 V AC, 1-phase / U₂ 230 V AC, 3-phase, without EMC filter

Mains voltage (50/60 Hz) U_{LN}: 200 (-15%) - 240 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	✓		FS1	IP20/NEMA0	DM1-121D6NB-S20S-EM	3-5046-004A	1 piece
3	0.55	0.5	4.8	1.1	1	✓	✓				DM1-123D0NB-S20S-EM	3-5046-005A	
4.8	1.1	1	7.8	1.5	2	✓	✓				DM1-124D8NB-S20S-EM	3-5046-006A	
7.8	1.5	2	11	2.2	3	✓	✓		FS2		DM1-127D8NB-S20S-EM	3-5048-003A	
11	2.2	3	17.5	4	5	✓	✓				DM1-12011NB-S20S-EM	3-5048-004A	
17.5	4	5	25	5.5	7.5	✓	✓		FS3		DM1-12017NB-S20S-EM	3-5050-002A	

U_e 230 V AC, 1-phase / U₂ 230 V AC, 3-phase, with EMC filter

Mains voltage (50/60 Hz) U_{LN}: 200 (-15%) - 240 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	✓	✓	FS1	IP20/NEMA0	DM1-121D6EB-S20S-EM	3-5045-004A	1 piece
3	0.55	0.5	4.8	1.1	1	✓	✓	✓			DM1-123D0EB-S20S-EM	3-5045-005A	
4.8	1.1	1	7.8	1.5	2	✓	✓	✓			DM1-124D8EB-S20S-EM	3-5045-006A	
7.8	1.5	2	11	2.2	3	✓	✓	✓	FS2		DM1-127D8EB-S20S-EM	3-5047-003A	
11	2.2	3	17.5	4	5	✓	✓	✓			DM1-12011EB-S20S-EM	3-5047-004A	
17.5	4	5	25	5.5	7.5	✓	✓	✓	FS3		DM1-12017EB-S20S-EM	3-5049-002A	

Notes: ¹⁾ Overload cycle for 60 s every 600 s, 150% at 50°C ambient temperature, 110% at 40°C ambient temperature

²⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

³⁾ At 400 V, 50 Hz/at 480 V, 60 Hz

PowerXL DM1 variable frequency drives

DM1 Pro for three-phase motors, 230 V, three-phase

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Features	Frame size	Degree of protection	Part no.	Article no.	Std. pack
$I_n = 150\%$			$I_n = 110\%$			Radio interference filter					
I_e			I_e			Brake chopper					
A	kW	HP	A	kW	HP	7-segment display					

U_e 230 V AC, 3-phase / U₂ 230 V AC, 3-phase, without EMC filter

Mains voltage (50/60 Hz) U_{LN}: 200 (-15%) - 240 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	✓	FS1	IP20/NEMA0	DM1-321D6NB-S20S-EM	3-5002-005A	1 piece
3	0.55	0.5	4.8	1.1	1	✓	✓			DM1-323D0NB-S20S-EM	3-5002-006A	
4.8	1.1	1	7.8	1.5	2	✓	✓			DM1-324D8NB-S20S-EM	3-5002-007A	
7.8	1.5	2	11	2.2	3	✓	✓			DM1-327D8NB-S20S-EM	3-5002-008A	
11	2.2	3	17.5	4	5	✓	✓	FS2		DM1-32011NB-S20S-EM	3-5004-003A	
17.5	4	5	25	5.5	7.5	✓	✓			DM1-32017NB-S20S-EM	3-5004-004A	
25	5.5	7.5	32	7.5	10	✓	✓	FS3		DM1-32025NB-S20S-EM	3-5006-002A	
32	7.5	10	48	11	15	✓	✓	FS4		DM1-32032NB-S20S-EM	3-5008-003A	
48	11	15	61	15	20	✓	✓			DM1-32048NB-S20S-EM	3-5008-004A	

U_e 230 V AC, 3-phase / U₂ 230 V AC, 3-phase, with EMC filter

Mains voltage (50/60 Hz) U_{LN}: 200 (-15%) - 240 (+10%) V

1.6	0.25	0.25	3	0.55	0.5	✓	✓	✓	FS1	IP20/NEMA0	DM1-321D6EB-S20S-EM	3-5001-005A	1 piece
3	0.55	0.5	4.8	1.1	1	✓	✓	✓			DM1-323D0EB-S20S-EM	3-5001-006A	
4.8	1.1	1	7.8	1.5	2	✓	✓	✓			DM1-324D8EB-S20S-EM	3-5001-007A	
7.8	1.5	2	11	2.2	3	✓	✓	✓			DM1-327D8EB-S20S-EM	3-5001-008A	
11	2.2	3	17.5	4	5	✓	✓	✓	FS2		DM1-32011EB-S20S-EM	3-5003-003A	
17.5	4	5	25	5.5	7.5	✓	✓	✓			DM1-32017EB-S20S-EM	3-5003-004A	
25	5.5	7.5	32	7.5	10	✓	✓	✓	FS3		DM1-32025EB-S20S-EM	3-5005-002A	
32	7.5	10	48	11	15	✓	✓	✓	FS4		DM1-32032EB-S20S-EM	3-5007-003A	
48	11	15	61	15	20	✓	✓	✓			DM1-32048EB-S20S-EM	3-5007-004A	

Notes: ¹⁾ Overload cycle for 60 s every 600 s, 150% at 50°C ambient temperature, 110% at 40°C ambient temperature

²⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

³⁾ At 400 V, 50 Hz/at 480 V, 60 Hz

PowerXL DM1 variable frequency drives

DM1 Pro for three-phase motors, 400 V, three-phase

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Features	Frame size	Degree of protection	Part no.	Article no.	Std. pack
$I_n = 150\%$ I_e A	kW	HP	$I_n = 110\%$ I_e A	kW	HP	Radio interference filter Brake chopper 7-segment display					

U_e 400 V AC, 3-phase / U₂ 400 V AC, 3-phase, without EMC filter

Mains voltage (50/60 Hz) U_{LN}: 380 (-15%) - 500 (+10%) V

1.5	0.55	0.5	2.2	0.75	1	✓	✓	FS1	IP20/NEMA0	DM1-341D5NB-S20S-EM	3-5010-005A	1 piece
2.2	0.75	1	4.3	1.5	2	✓	✓			DM1-342D2NB-S20S-EM	3-5010-006A	
4.3	1.5	2	5.6	2.2	3	✓	✓			DM1-344D3NB-S20S-EM	3-5010-007A	
5.6	2.2	3	7.6	3	5	✓	✓			DM1-345D6NB-S20S-EM	3-5010-008A	
7.6	3	5	12	5.5	7.5	✓	✓	FS2		DM1-347D6NB-S20S-EM	3-5012-004A	
12	5.5	7.5	16	7.5	10	✓	✓			DM1-34012NB-S20S-EM	3-5012-005A	
16	7.5	10	23	11	15	✓	✓			DM1-34016NB-S20S-EM	3-5012-006A	
23	11	15	31	15	20	✓	✓	FS3		DM1-34023NB-S20S-EM	3-5014-002A	
31	15	20	38	18.5	25	✓	✓	FS4		DM1-34031NB-S20S-EM	3-5016-003A	
38	18.5	25	46	22	30	✓	✓			DM1-34038NB-S20S-EM	3-5016-004A	

U_e 400 V AC, 3-phase / U₂ 400 V AC, 3-phase, with EMC filter

Mains voltage (50/60 Hz) U_{LN}: 380 (-15%) - 500 (+10%) V

1.5	0.55	0.5	2.2	0.75	1	✓	✓	✓	FS1	IP20/NEMA0	DM1-341D5EB-S20S-EM	3-5009-005A	1 piece
2.2	0.75	1	4.3	1.5	2	✓	✓	✓			DM1-342D2EB-S20S-EM	3-5009-006A	
4.3	1.5	2	5.6	2.2	3	✓	✓	✓			DM1-344D3EB-S20S-EM	3-5009-007A	
5.6	2.2	3	7.6	3	5	✓	✓	✓			DM1-345D6EB-S20S-EM	3-5009-008A	
7.6	3	5	12	5.5	7.5	✓	✓	✓	FS2		DM1-347D6EB-S20S-EM	3-5011-004A	
12	5.5	7.5	16	7.5	10	✓	✓	✓			DM1-34012EB-S20S-EM	3-5011-005A	
16	7.5	10	23	11	15	✓	✓	✓			DM1-34016EB-S20S-EM	3-5011-006A	
23	11	15	31	15	20	✓	✓	✓	FS3		DM1-34023EB-S20S-EM	3-5013-002A	
31	15	20	38	18.5	25	✓	✓	✓	FS4		DM1-34031EB-S20S-EM	3-5015-003A	
38	18.5	25	46	22	30	✓	✓	✓			DM1-34038EB-S20S-EM	3-5015-004A	

Notes: ¹⁾ Overload cycle for 60 s every 600 s, 150% at 50°C ambient temperature, 110% at 40°C ambient temperature

²⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

³⁾ At 400 V, 50 Hz/at 480 V, 60 Hz

PowerXL DM1 variable frequency drives

DM1 Pro for three-phase motors, 575 V, three-phase, DM1 und DM1 Pro options

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Features	Frame size	Degree of protection	Part no.	Article no.	Std. pack
$I_n = 150\%$			$I_n = 110\%$			Radio interference filter Brake chopper 7-segment display					
I_e	kW	HP	I_e	kW	HP						
A			A								

U_e 575 V AC, 3-phase / U₂ 575 V AC, 3-phase, without EMC filter

Mains voltage (50/60 Hz) U_{LN}: 525 (-15%) - 600 (+10%) V

4.5	2.2	3	7.5	4	5	✓	✓	FS2	IP20/NEMA0	DM1-354D5NB-S20S-EM	3-5051-004A	1 piece
7.5	4	5	10	5.5	7.5	✓	✓			DM1-357D5NB-S20S-EM	3-5051-005A	
10	5.5	7.5	13.5	7.5	10	✓	✓			DM1-35010NB-S20S-EM	3-5051-006A	
13.5	7.5	10	18	11	15	✓	✓	FS3		DM1-35013NB-S20S-EM	3-5052-002A	
18	11	15	22	15	20	✓	✓	FS4		DM1-35018NB-S20S-EM	3-5053-003A	
22	15	20	27	18.5	25	✓	✓			DM1-35022NB-S20S-EM	3-5053-004A	

U_e 575 V AC, 3-phase / U₂ 575 V AC, 3-phase, with EMC filter

Mains voltage (50/60 Hz) U_{LN}: 525 (-15%) - 600 (+10%) V

4.5	2.2	3	7.5	4	5	✓	✓	✓	FS2	IP20/NEMA0	DM1-354D5EB-S20S-EM	3-5060-004A	1 piece
7.5	4	5	10	5.5	7.5	✓	✓	✓			DM1-357D5EB-S20S-EM	3-5060-005A	
10	5.5	7.5	13.5	7.5	10	✓	✓	✓			DM1-35010EB-S20S-EM	3-5060-006A	
13.5	7.5	10	18	11	15	✓	✓	✓	FS3		DM1-35013EB-S20S-EM	3-5061-002A	
18	11	15	22	15	20	✓	✓	✓	FS4		DM1-35018EB-S20S-EM	3-5062-003A	
22	15	20	27	18.5	25	✓	✓	✓			DM1-35022EB-S20S-EM	3-5062-004A	

Notes: ¹⁾ Overload cycle for 60 s every 600 s, 150% at 50°C ambient temperature, 110% at 40°C ambient temperature

²⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

³⁾ At 400 V, 50 Hz/at 480 V, 60 Hz

Options

Description	Length m	For use with	Part no.	Article no.	Std. pack
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IP21 / NEMA1 kit DM1

In addition to facilitating an increase in the degree of protection, the NEMA1 kit also includes a cable support rail and the option to apply shielding. Furthermore, the ferrites can also be accommodated within this housing.

DM1 FR1 NEMA 1 kit		DM1	DXM-ACC-FR1N1KIT	3-5033-001A	1 piece
DM1 FR2 NEMA 1 kit		DM1	DXM-ACC-FR2N1KIT	3-5034-001A	1 piece
DM1 FR3 NEMA 1 kit		DM1	DXM-ACC-FR3N1KIT	3-5035-001A	1 piece
DM1 FR4 NEMA 1 kit		DM1	DXM-ACC-FR4N1KIT	3-5036-001A	1 piece

IP21 / NEMA1 kit DM1 100 kA UL plenum rating

DM1 size 1 flame retardant NEMA 1 kit		DM1	DXM-ACC-FR1N1PKIT	3-5056-001A	1 piece
DM1 size 2 flame retardant NEMA 1 kit		DM1	DXM-ACC-FR2N1PKIT	3-5057-001A	1 piece
DM1 size 3 flame retardant NEMA 1 kit		DM1	DXM-ACC-FR3N1PKIT	3-5058-001A	1 piece
DM1 size 4 flame retardant NEMA 1 kit		DM1	DXM-ACC-FR4N1PKIT	3-5059-001A	1 piece

DM1 Pro network interfaces

DM1 Profibus option with clip-on housing		DM1	DXM-NET-PROFIBUS	3-5039-001A	1 piece
DM1 CANopen option with clip-on housing		DM1	DXM-NET-CANOPEN	3-5040-001A	1 piece
DM1 Profinet option with clip-on housing		DM1	DXM-NET-PROFINET	400004	1 piece

DG1, DH1 & DM1 keypad options

DG1/DH1 keypad: RMTKIT			DXG-KEY-RMTKIT	730-32033-00P	1 piece
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PowerXL DM1 variable frequency drives

Technical data

General information

Product standard	IEC/EN 61800-2	
Production standard	RoHS, ISO 9001	
Safety	IEC/EN 61800-5-1:2007/A1:2017; UL 61800-5-1:2012 (Rev. 2018), CSA C22.2 No. 274-17:2017	
Radio interference level	IEC/EN 61800-3	
Integrated radio interference filters	Yes, C2	
Radio interference class (EMC)	C1 (with external filter, line-conducted only), C2, C3; depending on the motor line length, the connected load and the environment. External radio interference filters (optional) may be required.	
Radio interference class (EMC), external filters	Optional external radio interference filter for longer motor cables and use in other EMC environments	
Environment (EMC)	First and second environment in accordance with EN 61800-3	
First environment	Yes	
Second environment	Yes	
Maximum permissible motor cable length with integrated filter	C2 ≤ 5 m C3 ≤ 25 m	
Immunity	EN 61800-3:2004+A1-2012, first and second environment	
Emissions	EN 61800-3:2004+A1-2012, category C2	
Electrostatic discharge (ESD)	IEC 61000-4-2, 4 kV contact, 8 kV air, second environment, criterion B	
Fast transients (burst)	IEC 61000-4-4, 2 kV/5 kHz, second environment, criterion B	
Dielectric strength	Input to output: 3600 V AC/5100 V DC Input to ground: 2000 V AC/2828 V DC	
THD	(depending on the size)	
Acoustics		
Average noise level (fan) Sound power level in dB(A)	TBD	
Noise level	EN 61800-5-1 (2007)	
Weather resistance	< 95 %, average relative humidity (RH), non-condensing, non-corrosive	
Ambient temperature range		
110 % overload (1 min./10 min.)	°C	-10 to +40 (max. +55 with 1 % derating per Kelvin of temperature increase)
150 % overload (1 min./10 min.)	°C	-10 to +50 (max. +60 with 1 % derating per Kelvin of temperature increase)
Tmin	°C	-10
Tmax	°C	60
Ambient conditions	IEC 60068-2-60	
Ambient air according to IEC/EN 60721-3-3	3C2, 3S2	
Storage temperature	°C	-40 to +70
Altitude	By voltage	
Permissible network types	TN-S, TN-C, TN-C-S, TT, IT	
Installation position	Vertical	
Degree of protection	EN 60529:1992	
DM1-...-C00C	IP20 / NEMA Type 0, IP21/NEMA 1 with option	
Busbar tag shroud	BGV A3 (VBG4, finger and back-of-hand proof)	
Overvoltage category	III	
Pollution level	2	
Shock resistance	EN 61800-5-1, EN 60068-2-27 UPS drop test (for weights within the UPS frame) Storage and transport: maximum 15 g, 11 ms (while packaged)	

Main circuit

Rated operating voltage (three-phase)		
DM1-11...	V	115 (-10%/+10%)
DM1-12...	V	208 (-10%) - 240 (+10%)
DM1-32...	V	208 (-10%) - 240 (+10%)
DM1-34...	V	380 (-10%) - 500 (+10%)
DM1-35...	V	500 (-10%) - 600 (+10%)
Tolerance up	%	10
Tolerance down	%	15
Mains frequency	Hz	50/60
Tolerance	%	10
Power frequency range	Hz	45 - 66
Mains switch-on frequency		Max. once every 60 seconds
Overload withstand capability		Overload cycle for 60 s every 600 s
IL (1 min./10 min.)	%	110
IH (1 min./10 min.)	%	150
Comment		Rated operational current at standard switching frequency and an ambient temperature of +50 °C for an overload of 150 %, and +40 °C for an overload of 110 %.
Short-term overload capacity (2 sec / 20 sec)	%	200
Peak overload cycle		For 2 seconds every 20 seconds
Output voltage at Ue	V	0 - Uin

Variable frequency drive functions

Ramp times		
Start-up	s	0.1 - 3000
Delay	s	0.1 - 3000
Control modes		All DM1: V/f control DM1 Pro: Speed control with slip compensation Sensorless vector control (SLV) Torque control PM motor control
Inputs / outputs		
Digital inputs		4, configurable, max. 30 V DC
Digital outputs		0,
Analog inputs		1, configurable, 0 - 10 V DC, 2 - 10 V DC, 0/4 - 20 mA
Analog outputs		1, configurable, 0 - 10 V
Relay		3A (240 V AC) / 3A (24 V DC) DM1: 1 changeover contact, configurable DM1 Pro: 1 changeover and 1 make contact, configurable
Communications		
On board		All DM1: Modbus RTU DM1 Pro: Modbus TCP, BACnet MS/TP, Bacnet TCP, Ethernet IP
Optional		Profibus, CAN, DeviceNet, SmartWire-DT, PROFINET

PowerXL DM1 variable frequency drives

External components

	Ie (150% overload)			Ie (110% overload)		
	Rated operational current	Type 1 coordination	Type 1 coordination	Rated operational current	Type 1 coordination	Type 1 coordination
	A			A		
3~/3~ 230 V without EMC						
DM1-321D6NB-N20B-EM	1.6	PKZM0-1,6	C10G4	3	PKZM0-4	C10G4
DM1-323D0NB-N20B-EM	3	PKZM0-4	C10G10	4.8	PKZM0-6,3	C10G10
DM1-324D8NB-N20B-EM	4.8	PKZM0-6,3	C10G10	7.8	PKZM0-10	C10G10
DM1-327D8NB-N20B-EM	7.8	PKZM0-10	C10G16	11	PKZM0-12	C10G16
DM1-32011NB-N20B-EM	11	PKZM0-12	C10G32	17.5	PKZM0-20	C10G32
DM1-32017NB-N20B-EM	17.5	PKZM0-20	C10G32	25	PKZM0-25	C10G32
DM1-32025NB-N20B-EM	25	PKZM0-25	C14G40	32	PKZM0-32	C14G40
DM1-32032NB-N20B-EM	32	PKZM0-32	C22G63	48	PKZM4-50	C22G63
DM1-32048NB-N20B-EM	48	PKZM4-50	C22G80	61	PKZM4-63	C22G80
3~/3~ 230 V with EMC						
DM1-321D6EB-N20B-EM	1.6	PKZM0-1,6	C10G4	3	PKZM0-4	C10G4
DM1-323D0EB-N20B-EM	3	PKZM0-4	C10G10	4.8	PKZM0-6,3	C10G10
DM1-324D8EB-N20B-EM	4.8	PKZM0-6,3	C10G10	7.8	PKZM0-10	C10G10
DM1-327D8EB-N20B-EM	7.8	PKZM0-10	C10G16	11	PKZM0-12	C10G16
DM1-32011EB-N20B-EM	11	PKZM0-12	C10G32	17.5	PKZM0-20	C10G32
DM1-32017EB-N20B-EM	17.5	PKZM0-20	C10G32	25	PKZM0-25	C10G32
DM1-32025EB-N20B-EM	25	PKZM0-25	C14G40	32	PKZM0-32	C14G40
DM1-32032EB-N20B-EM	32	PKZM0-32	C22G63	48	PKZM4-50	C22G63
DM1-32048EB-N20B-EM	48	PKZM4-50	C22G80	61	PKZM4-63	C22G80
3~/3~ 400 V without EMC						
DM1-341D5NB-N20B-EM	1.5	PKZM0-1,6	C10G4	2.2	PKZM0-2,5	C10G4
DM1-342D2NB-N20B-EM	2.2	PKZM0-2,5	C10G10	4.3	PKZM0-6,3	C10G10
DM1-344D3NB-N20B-EM	4.3	PKZM0-6,3	C10G10	5.6	PKZM0-6,3	C10G10
DM1-345D6NB-N20B-EM	5.6	PKZM0-6,3	C10G10	7.6	PKZM0-10	C10G10
DM1-347D6NB-N20B-EM	7.6	PKZM0-10	C10G16	12	PKZM0-12	C10G16
DM1-34012NB-N20B-EM	12	PKZM0-12	C10G20	16	PKZM0-16	C10G20
DM1-34016NB-N20B-EM	16	PKZM0-16	C10G32	23	PKZM0-25	C10G32
DM1-34023NB-N20B-EM	23	PKZM0-25	C14G40	31	PKZM0-32	C14G40
DM1-34031NB-N20B-EM	31	PKZM0-32	C14G50	38	PKZM4-40	C14G50
DM1-34038NB-N20B-EM	38	PKZM4-40	C22G63	46	PKZM4-50	C22G63
3~/3~ 400 V with EMC						
DM1-341D5EB-N20B-EM	1.5	PKZM0-1,6	C10G4	2.2	PKZM0-2,5	C10G4
DM1-342D2EB-N20B-EM	2.2	PKZM0-2,5	C10G10	4.3	PKZM0-6,3	C10G10
DM1-344D3EB-N20B-EM	4.3	PKZM0-6,3	C10G10	5.6	PKZM0-6,3	C10G10
DM1-345D6EB-N20B-EM	5.6	PKZM0-6,3	C10G10	7.6	PKZM0-10	C10G10
DM1-347D6EB-N20B-EM	7.6	PKZM0-10	C10G16	12	PKZM0-12	C10G16
DM1-34012EB-N20B-EM	12	PKZM0-12	C10G20	16	PKZM0-16	C10G20
DM1-34016EB-N20B-EM	16	PKZM0-16	C10G32	23	PKZM0-25	C10G32
DM1-34023EB-N20B-EM	23	PKZM0-25	C14G40	31	PKZM0-32	C14G40
DM1-34031EB-N20B-EM	31	PKZM0-32	C14G50	38	PKZM4-40	C14G50
DM1-34038EB-N20B-EM	38	PKZM4-40	C22G63	46	PKZM4-50	C22G63

External brake resistors						
Minimal brake resistor	Switch-on voltage	Number of brake choppers	10.0 % ED	20.0 % ED	40.0 % ED	RCD type
Ω						
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-3K1	FRCdM-40/4/003-G/Bfq
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-5K1	FRCdM-40/4/003-G/Bfq
12	395	1	DX-BR012-3K1	DX-BR012-3K1	DX-BR012-9K2	FRCdM-40/4/003-G/Bfq
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	FRCdM-63/4/003-G/Bfq
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	P:3 x DX-BR022-5K1	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-3K1	FRCdM-40/4/003-G/Bfq
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-5K1	FRCdM-40/4/003-G/Bfq
12	395	1	DX-BR012-3K1	DX-BR012-3K1	DX-BR012-9K2	FRCdM-40/4/003-G/Bfq
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	FRCdM-63/4/003-G/Bfq
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	P:3 x DX-BR022-5K1	
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR035-1K1	DX-BR040-3K1	DX-BR040-5K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR047-9K2	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-5K1	DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
26	790	1	DX-BR040-3K1	DX-BR040-5K1	P2R2: DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR035-1K1	DX-BR040-3K1	DX-BR040-5K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR047-9K2	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-5K1	DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
26	790	1	DX-BR040-3K1	DX-BR040-5K1	P2R2: DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq

PowerXL DM1 variable frequency drives

External components

	I _e (150% overload)			I _e (110% overload)		
	Rated operational current	Type 1 coordination	Type 1 coordination	Rated operational current	Type 1 coordination	Type 1 coordination
	A			A		
1~ 115 V/3~230 V without EMC						
DM1-111D6NB-S20S-EM	1.6	PKZM0-1,6	C10G10	3	PKZM0-4	C10G10
DM1-113D0NB-S20S-EM	3	PKZM0-4	C10G25	4.8	PKZM0-6,3	C10G25
DM1-114D8NB-S20S-EM	4.8	PKZM0-6,3	C10G32	6.9	PKZM0-10	C10G32
DM1-116D9NB-S20S-EM	6.9	PKZM0-10	C14G40	7.8	PKZM0-10	C14G40
1~ 115 V/3~ 230 V with EMC						
DM1-111D6EB-S20S-EM	1.6	PKZM0-1,6	C10G10	3	PKZM0-4	C10G10
DM1-113D0EB-S20S-EM	3	PKZM0-4	C10G25	4.8	PKZM0-6,3	C10G25
DM1-114D8EB-S20S-EM	4.8	PKZM0-6,3	C10G32	6.9	PKZM0-10	C10G32
DM1-116D9EB-S20S-EM	6.9	PKZM0-10	C14G40	7.8	PKZM0-10	C14G40
1~/3~ 230 V without EMC						
DM1-121D6NB-S20S-EM	1.6	PKZM0-1,6	C10G4	3	PKZM0-4	C10G4
DM1-123D0NB-S20S-EM	3	PKZM0-4	C10G10	4.8	PKZM0-6,3	C10G10
DM1-124D8NB-S20S-EM	4.8	PKZM0-6,3	C10G10	7.8	PKZM0-10	C10G10
DM1-127D8NB-S20S-EM	7.8	PKZM0-10	C10G16	11	PKZM0-12	C10G16
DM1-12011NB-S20S-EM	11	PKZM0-12	C10G25	17.5	PKZM0-20	C10G25
DM1-12017NB-S20S-EM	17.5	PKZM0-20	C10G32	25	PKZM0-25	C10G32
1~/3~ 230 V with EMC						
DM1-121D6EB-S20S-EM	1.6	PKZM0-1,6	C10G4	3	PKZM0-4	C10G4
DM1-123D0EB-S20S-EM	3	PKZM0-4	C10G10	4.8	PKZM0-6,3	C10G10
DM1-124D8EB-S20S-EM	4.8	PKZM0-6,3	C10G10	7.8	PKZM0-10	C10G10
DM1-127D8EB-S20S-EM	7.8	PKZM0-10	C10G16	11	PKZM0-12	C10G16
DM1-12011EB-S20S-EM	11	PKZM0-12	C10G25	17.5	PKZM0-20	C10G25
DM1-12017EB-S20S-EM	17.5	PKZM0-20	C10G32	25	PKZM0-25	C10G32
3~/3~ 230 V without EMC						
DM1-321D6NB-S20S-EM	1.6	PKZM0-1,6	C10G4	3	PKZM0-4	C10G4
DM1-323D0NB-S20S-EM	3	PKZM0-4	C10G10	4.8	PKZM0-6,3	C10G10
DM1-324D8NB-S20S-EM	4.8	PKZM0-6,3	C10G10	7.8	PKZM0-10	C10G10
DM1-327D8NB-S20S-EM	7.8	PKZM0-10	C10G16	11	PKZM0-12	C10G16
DM1-32011NB-S20S-EM	11	PKZM0-12	C10G25	17.5	PKZM0-20	C10G25
DM1-32017NB-S20S-EM	17.5	PKZM0-20	C10G32	25	PKZM0-25	C10G32
DM1-32025NB-S20S-EM	25	PKZM0-25	C14G40	32	PKZM0-32	C14G40
DM1-32032NB-S20S-EM	32	PKZM0-32	C22G63	48	PKZM4-50	C22G63
DM1-32048NB-S20S-EM	48	PKZM4-50	C22G80	61	PKZM4-63	C22G80
3~/3~ 230 V with EMC						
DM1-321D6EB-S20S-EM	1.6	PKZM0-1,6	C10G4	3	PKZM0-4	C10G4
DM1-323D0EB-S20S-EM	3	PKZM0-4	C10G10	4.8	PKZM0-6,3	C10G10
DM1-324D8EB-S20S-EM	4.8	PKZM0-6,3	C10G10	7.8	PKZM0-10	C10G10
DM1-327D8EB-S20S-EM	7.8	PKZM0-10	C10G16	11	PKZM0-12	C10G16
DM1-32011EB-S20S-EM	11	PKZM0-12	C10G25	17.5	PKZM0-20	C10G25
DM1-32017EB-S20S-EM	17.5	PKZM0-20	C10G32	25	PKZM0-25	C10G32
DM1-32025EB-S20S-EM	25	PKZM0-25	C14G40	32	PKZM0-32	C14G40
DM1-32032EB-S20S-EM	32	PKZM0-32	C22G63	48	PKZM4-50	C22G63
DM1-32048EB-S20S-EM	48	PKZM4-50	C22G80	61	PKZM4-63	C22G80

External brake resistors							
Minimal brake resistor	Switch-on voltage	Number of brake choppers	10.0 % ED	20.0 % ED	40.0 % ED	RCD type	
Ω							
36	395	1				FRCdM-25/4/003-G/Bfq	
36	395	1				FRCdM-25/4/003-G/Bfq	
16	395	1				FRCdM-40/4/003-G/Bfq	
16	395	1				FRCdM-40/4/003-G/Bfq	
36	395	1				FRCdM-25/4/003-G/Bfq	
36	395	1				FRCdM-25/4/003-G/Bfq	
16	395	1				FRCdM-40/4/003-G/Bfq	
16	395	1				FRCdM-40/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-1K4	DX-BR022-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-3K1	FRCdM-25/4/003-G/Bfq	
12	395	1	DX-BR012-3K1	DX-BR012-3K1	DX-BR012-5K1	FRCdM-40/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-1K4	DX-BR022-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-3K1	FRCdM-25/4/003-G/Bfq	
12	395	1	DX-BR012-3K1	DX-BR012-3K1	DX-BR012-5K1	FRCdM-40/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-5K1	FRCdM-40/4/003-G/Bfq	
12	395	1	DX-BR012-3K1	DX-BR012-3K1	DX-BR012-9K2	FRCdM-40/4/003-G/Bfq	
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	FRCdM-63/4/003-G/Bfq	
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	P:3 x DX-BR022-5K1		
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
36	395	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR040-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-3K1	FRCdM-25/4/003-G/Bfq	
16	395	1	DX-BR022-1K4	DX-BR022-3K1	DX-BR022-5K1	FRCdM-40/4/003-G/Bfq	
12	395	1	DX-BR012-3K1	DX-BR012-3K1	DX-BR012-9K2	FRCdM-40/4/003-G/Bfq	
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	FRCdM-63/4/003-G/Bfq	
6	395	1	P:3 x DX-BR022-1K4	P:3 x DX-BR022-3K1	P:3 x DX-BR022-5K1		

PowerXL DM1 variable frequency drives

External components

	I _e (150% overload)			I _e (110% overload)		
	Rated operational current	Type 1 coordination	Type 1 coordination	Rated operational current	Type 1 coordination	Type 1 coordination
	A			A		
3~ / 3~ 400 V without EMC						
DM1-341D5NB-S20S-EM	1.5	PKZM0-1,6	C10G4	2.2	PKZM0-2,5	C10G4
DM1-342D2NB-S20S-EM	2.2	PKZM0-2,5	C10G10	4.3	PKZM0-6,3	C10G10
DM1-344D3NB-S20S-EM	4.3	PKZM0-6,3	C10G10	5.6	PKZM0-6,3	C10G10
DM1-345D6NB-S20S-EM	5.6	PKZM0-6,3	C10G10	7.6	PKZM0-10	C10G10
DM1-347D6NB-S20S-EM	7.6	PKZM0-10	C10G16	12	PKZM0-12	C10G16
DM1-34012NB-S20S-EM	12	PKZM0-12	C10G20	16	PKZM0-16	C10G20
DM1-34016NB-S20S-EM	16	PKZM0-16	C10G32	23	PKZM0-25	C10G32
DM1-34023NB-S20S-EM	23	PKZM0-25	C14G40	31	PKZM0-32	C14G40
DM1-34031NB-S20S-EM	31	PKZM0-32	C14G50	38	PKZM4-40	C14G50
DM1-34038NB-S20S-EM	38	PKZM4-40	C22G63	46	PKZM4-50	C22G63
3~ / 3~ 400 V with EMC						
DM1-341D5EB-S20S-EM	1.5	PKZM0-1,6	C10G4	2.2	PKZM0-2,5	C10G4
DM1-342D2EB-S20S-EM	2.2	PKZM0-2,5	C10G10	4.3	PKZM0-6,3	C10G10
DM1-344D3EB-S20S-EM	4.3	PKZM0-6,3	C10G10	5.6	PKZM0-6,3	C10G10
DM1-345D6EB-S20S-EM	5.6	PKZM0-6,3	C10G10	7.6	PKZM0-10	C10G10
DM1-347D6EB-S20S-EM	7.6	PKZM0-10	C10G16	12	PKZM0-12	C10G16
DM1-34012EB-S20S-EM	12	PKZM0-12	C10G20	16	PKZM0-16	C10G20
DM1-34016EB-S20S-EM	16	PKZM0-16	C10G32	23	PKZM0-25	C10G32
DM1-34023EB-S20S-EM	23	PKZM0-25	C14G40	31	PKZM0-32	C14G40
DM1-34031EB-S20S-EM	31	PKZM0-32	C14G50	38	PKZM4-40	C14G50
DM1-34038EB-S20S-EM	38	PKZM4-40	C22G63	46	PKZM4-50	C22G63
3~ / 3~ 575 V without EMC						
DM1-354D5NB-S20S-EM	4.5	PKZM0-6,3	C10G10	7.5	PKZM0-10	C10G10
DM1-357D5NB-S20S-EM	7.5	PKZM0-10	C10G10	10	PKZM0-10	C10G10
DM1-35010NB-S20S-EM	10	PKZM0-10	C10G16	13.5	PKZM0-16	C10G16
DM1-35013NB-S20S-EM	13.5	PKZM0-16	C10G20	18	PKZM0-20	C10G20
DM1-35018NB-S20S-EM	18	PKZM0-20	C10G25	22	PKZM0-25	C10G25
DM1-35022NB-S20S-EM	22	PKZM0-25	C14G40	27	PKZM0-32	C14G40
3~ / 3~ 575 V with EMC						
DM1-354D5EB-S20S-EM	4.5	PKZM0-6,3	C10G10	7.5	PKZM0-10	C10G10
DM1-357D5EB-S20S-EM	7.5	PKZM0-10	C10G10	10	PKZM0-10	C10G10
DM1-35010EB-S20S-EM	10	PKZM0-10	C10G16	13.5	PKZM0-16	C10G16
DM1-35013EB-S20S-EM	13.5	PKZM0-16	C10G20	18	PKZM0-20	C10G20
DM1-35018EB-S20S-EM	18	PKZM0-20	C10G25	22	PKZM0-25	C10G25
DM1-35022EB-S20S-EM	22	PKZM0-25	C14G40	27	PKZM0-32	C14G40

External brake resistors						
Minimal brake resistor	Switch-on voltage	Number of brake choppers	10.0 % ED	20.0 % ED	40.0 % ED	RCD type
Ω						
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR035-1K1	DX-BR040-3K1	DX-BR040-5K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR047-9K2	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-5K1	DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
26	790	1	DX-BR040-3K1	DX-BR040-5K1	P2R2: DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
105	790	1	R:3 x DX-BR035-1K1	R:3 x DX-BR040-3K1	R:3 x DX-BR040-3K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR035-1K1	DX-BR040-3K1	DX-BR040-5K1	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-3K1	DX-BR047-9K2	FRCdM-25/4/003-G/Bfq
35	790	1	DX-BR040-3K1	DX-BR040-5K1	DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
26	790	1	DX-BR040-3K1	DX-BR040-5K1	P2R2: DX-BR047-9K2	FRCdM-40/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq
17	790	1	DX-BR022-5K1	DX-BR022-9K2	P:2 x DX-BR047-9K2	FRCdM-63/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-40/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-25/4/003-G/Bfq
0	990	1				FRCdM-40/4/003-G/Bfq

PowerXL DM1 variable frequency drives

External components

High overload (150 %)									
	Rated operational current I _o	Optional mains contactor	Integrated EMC filter	External EMC filter					
				Permissible cable length for C1 [m]	Permissible cable length for C2 [m]	Permissible cable length for C3 [m]	Part no.	Permissible cable length for C1 [m]	Permissible cable length for C2 [m]
A									
3~/3~ 230 V without EMC									
DM1-321D6NB-N20B-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-323D0NB-N20B-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-324D8NB-N20B-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-327D8NB-N20B-EM	7.8	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-32011NB-N20B-EM	11	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-016	5	50	75
DM1-32017NB-N20B-EM	17.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-030	5	50	75
DM1-32025NB-N20B-EM	25	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-030	5	50	75
DM1-32032NB-N20B-EM	32	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-042	5	50	75
DM1-32048NB-N20B-EM	48	DILM40 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-055	5	50	75
3~/3~ 230 V with EMC									
DM1-321D6EB-N20B-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-323D0EB-N20B-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-324D8EB-N20B-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-327D8EB-N20B-EM	7.8	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-32011EB-N20B-EM	11	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-016	5	50	75
DM1-32017EB-N20B-EM	17.5	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-030	5	50	75
DM1-32025EB-N20B-EM	25	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-030	5	50	75
DM1-32032EB-N20B-EM	32	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-042	5	50	75
DM1-32048EB-N20B-EM	48	DILM40 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-055	5	50	75
3~/3~ 400 V without EMC									
DM1-341D5NB-N20B-EM	1.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-342D2NB-N20B-EM	2.2	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-344D3NB-N20B-EM	4.3	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-345D6NB-N20B-EM	5.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-347D6NB-N20B-EM	7.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-34012NB-N20B-EM	12	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-016	5	50	75
DM1-34016NB-N20B-EM	16	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-016	5	50	75
DM1-34023NB-N20B-EM	23	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-030	5	50	75
DM1-34031NB-N20B-EM	31	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-042	5	50	75
DM1-34038NB-N20B-EM	38	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-042	5	50	75
3~/3~ 400 V with EMC									
DM1-341D5EB-N20B-EM	1.5	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-342D2EB-N20B-EM	2.2	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-344D3EB-N20B-EM	4.3	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-345D6EB-N20B-EM	5.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-347D6EB-N20B-EM	7.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-34012EB-N20B-EM	12	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-016	5	50	75
DM1-34016EB-N20B-EM	16	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-016	5	50	75
DM1-34023EB-N20B-EM	23	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-030	5	50	75
DM1-34031EB-N20B-EM	31	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-042	5	50	75
DM1-34038EB-N20B-EM	38	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-042	5	50	75

External EMC filter (Low fault current)				Mains choke	Motor choke	Sine filter	All-pole sine filter
Part no.	Permissible cable length for C1 [m]	Permissible cable length for C2 [m]	Permissible cable length for C3 [m]	uk [%]			
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50	DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-011	DX-SIN3-016	DX-SIN3-013-A
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-055-L	25	50	DX-LN3-050	0.37	DX-LM3-050	DX-SIN3-048	DX-SIN3-065-A
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50	DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-011	DX-SIN3-016	DX-SIN3-013-A
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-055-L	25	50	DX-LN3-050	0.37	DX-LM3-050	DX-SIN3-048	DX-SIN3-065-A
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50	DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-013-A
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-024-A
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-050	DX-SIN3-048	DX-SIN3-046-A
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50	DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-013-A
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-024-A
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-050	DX-SIN3-048	DX-SIN3-046-A

PowerXL DM1 variable frequency drives

External components

	High overload (150 %)			External EMC filter			
	Rated operational current I _e	Optional mains contactor	Integrated EMC filter	Part no.	Permissible cable length for C1 [m]	Permissible cable length for C2 [m]	Permissible cable length for C3 [m]
A							
1~ 115 V/3~230 V without EMC							
DM1-111D6NB-S20S-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-113D0NB-S20S-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-114D8NB-S20S-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-116D9NB-S20S-EM	6.9	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
1~ 115 V/3~ 230 V with EMC							
DM1-111D6EB-S20S-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-113D0EB-S20S-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-114D8EB-S20S-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-116D9EB-S20S-EM	6.9	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
1~/3~ 230 V without EMC							
DM1-121D6NB-S20S-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-123D0NB-S20S-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-124D8NB-S20S-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-127D8NB-S20S-EM	7.8	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-12011NB-S20S-EM	11	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-014	50 75
DM1-12017NB-S20S-EM	17.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC12-019	50 75
1~/3~ 230 V with EMC							
DM1-121D6EB-S20S-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-123D0EB-S20S-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-124D8EB-S20S-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-127D8EB-S20S-EM	7.8	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-12011EB-S20S-EM	11	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-014	50 75
DM1-12017EB-S20S-EM	17.5	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC12-019	50 75
3~/3~ 230 V without EMC							
DM1-321D6NB-S20S-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5 50 75
DM1-323D0NB-S20S-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5 50 75
DM1-324D8NB-S20S-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5 50 75
DM1-327D8NB-S20S-EM	7.8	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5 50 75
DM1-32011NB-S20S-EM	11	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-016	5 50 75
DM1-32017NB-S20S-EM	17.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-030	5 50 75
DM1-32025NB-S20S-EM	25	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-030	5 50 75
DM1-32032NB-S20S-EM	32	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-042	5 50 75
DM1-32048NB-S20S-EM	48	DILM40 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-055	5 50 75
3~/3~ 230 V with EMC							
DM1-321D6EB-S20S-EM	1.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5 50 75
DM1-323D0EB-S20S-EM	3	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5 50 75
DM1-324D8EB-S20S-EM	4.8	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5 50 75
DM1-327D8EB-S20S-EM	7.8	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5 50 75
DM1-32011EB-S20S-EM	11	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-016	5 50 75
DM1-32017EB-S20S-EM	17.5	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-030	5 50 75
DM1-32025EB-S20S-EM	25	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-030	5 50 75
DM1-32032EB-S20S-EM	32	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-042	5 50 75
DM1-32048EB-S20S-EM	48	DILM40 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-055	5 50 75

External EMC filter (Low fault current)		Mains choke			Motor choke	Sine filter	All-pole sine filter		
Part no.	Permissible cable length for C1 [m]	Permissible cable length for C2 [m]	Permissible cable length for C3 [m]	uk [%]					
					DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
					DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
					DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
					DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
	25	50			DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
	25	50			DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
					DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
					DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
					DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
					DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
					DX-LN3-016	1.84	DX-LM3-011	DX-SIN3-016	DX-SIN3-013-A
					DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
	25	50			DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
	25	50			DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
	25	50			DX-LN3-016	1.84	DX-LM3-011	DX-SIN3-016	DX-SIN3-013-A
	25	50			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
DX-EMC34-008-L	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
DX-EMC34-008-L	25	50			DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50			DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
DX-EMC34-016-L	25	50			DX-LN3-016	1.84	DX-LM3-011	DX-SIN3-016	DX-SIN3-013-A
DX-EMC34-030-L	25	50			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
DX-EMC34-030-L	25	50			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-042-L	25	50			DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-055-L	25	50			DX-LN3-050	0.37	DX-LM3-050	DX-SIN3-048	DX-SIN3-065-A
DX-EMC34-008-L	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A
DX-EMC34-008-L	25	50			DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-004-A
DX-EMC34-008-L	25	50			DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A
DX-EMC34-008-L	25	50			DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A
DX-EMC34-016-L	25	50			DX-LN3-016	1.84	DX-LM3-011	DX-SIN3-016	DX-SIN3-013-A
DX-EMC34-030-L	25	50			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A
DX-EMC34-030-L	25	50			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-042-L	25	50			DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A
DX-EMC34-055-L	25	50			DX-LN3-050	0.37	DX-LM3-050	DX-SIN3-048	DX-SIN3-065-A

PowerXL DM1 variable frequency drives

External components

	High overload (150 %)			External EMC filter					
	Rated operational current I _r	Optional mains contactor	Integrated EMC filter	External EMC filter					
				Permissible cable length for C1 [m]	Permissible cable length for C2 [m]	Permissible cable length for C3 [m]	Part no.	Permissible cable length for C1 [m]	Permissible cable length for C2 [m]
A									
3~/3~ 400 V without EMC									
DM1-341D5NB-S20S-EM	1.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-342D2NB-S20S-EM	2.2	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-344D3NB-S20S-EM	4.3	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-345D6NB-S20S-EM	5.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-347D6NB-S20S-EM	7.6	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-008	5	50	75
DM1-34012NB-S20S-EM	12	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-016	5	50	75
DM1-34016NB-S20S-EM	16	DILM7-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-016	5	50	75
DM1-34023NB-S20S-EM	23	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-030	5	50	75
DM1-34031NB-S20S-EM	31	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-042	5	50	75
DM1-34038NB-S20S-EM	38	DILM17-10 (230V50HZ,240V60HZ)	0	0	0	DX-EMC34-042	5	50	75
3~/3~ 400 V with EMC									
DM1-341D5EB-S20S-EM	1.5	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-342D2EB-S20S-EM	2.2	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-344D3EB-S20S-EM	4.3	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-345D6EB-S20S-EM	5.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-347D6EB-S20S-EM	7.6	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-008	5	50	75
DM1-34012EB-S20S-EM	12	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-016	5	50	75
DM1-34016EB-S20S-EM	16	DILM7-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-016	5	50	75
DM1-34023EB-S20S-EM	23	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-030	5	50	75
DM1-34031EB-S20S-EM	31	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-042	5	50	75
DM1-34038EB-S20S-EM	38	DILM17-10 (230V50HZ,240V60HZ)	0	5	25	DX-EMC34-042	5	50	75
3~/3~ 575 V without EMC									
DM1-354D5NB-S20S-EM	4.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-357D5NB-S20S-EM	7.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35010NB-S20S-EM	10	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35013NB-S20S-EM	13.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35018NB-S20S-EM	18	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35022NB-S20S-EM	22	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
3~/3~ 575 V with EMC									
DM1-354D5EB-S20S-EM	4.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-357D5EB-S20S-EM	7.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35010EB-S20S-EM	10	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35013EB-S20S-EM	13.5	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35018EB-S20S-EM	18	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				
DM1-35022EB-S20S-EM	22	DILM7-10 (230V50HZ,240V60HZ)	0	0	0				

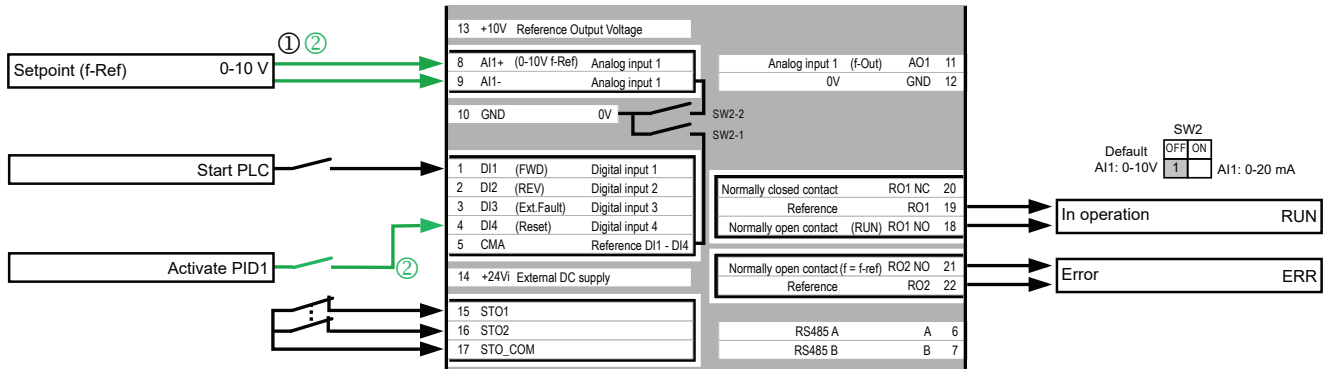
External EMC filter (Low fault current)		Mains choke			uk [%]	Motor choke	Sine filter	All-pole sine filter
Part no.	Permis- sible cable length for C1 [m]	Permis- sible cable length for C2 [m]	Permis- sible cable length for C3 [m]					
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A	
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A	
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A	
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A	
DX-EMC34-008-L	25	50	DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A	
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-013-A	
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-024-A	
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A	
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A	
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-050	DX-SIN3-048	DX-SIN3-046-A	
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A	
DX-EMC34-008-L	25	50	DX-LN3-004	7.51	DX-LM3-008	DX-SIN3-004	DX-SIN3-2D5-A	
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A	
DX-EMC34-008-L	25	50	DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010	DX-SIN3-006-A	
DX-EMC34-008-L	25	50	DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010	DX-SIN3-013-A	
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-013-A	
DX-EMC34-016-L	25	50	DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016	DX-SIN3-024-A	
DX-EMC34-030-L	25	50	DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023	DX-SIN3-024-A	
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-035	DX-SIN3-032	DX-SIN3-046-A	
DX-EMC34-042-L	25	50	DX-LN3-040	0.64	DX-LM3-050	DX-SIN3-048	DX-SIN3-046-A	
			DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010		
			DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010		
			DX-LN3-010	2.94	DX-LM3-011	DX-SIN3-010		
			DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016		
			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023		
			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023		
			DX-LN3-006	4.9	DX-LM3-008	DX-SIN3-010		
			DX-LN3-010	2.94	DX-LM3-008	DX-SIN3-010		
			DX-LN3-010	2.94	DX-LM3-011	DX-SIN3-010		
			DX-LN3-016	1.84	DX-LM3-016	DX-SIN3-016		
			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023		
			DX-LN3-025	1.18	DX-LM3-035	DX-SIN3-023		

PowerXL DM1 variable frequency drives

Connection examples

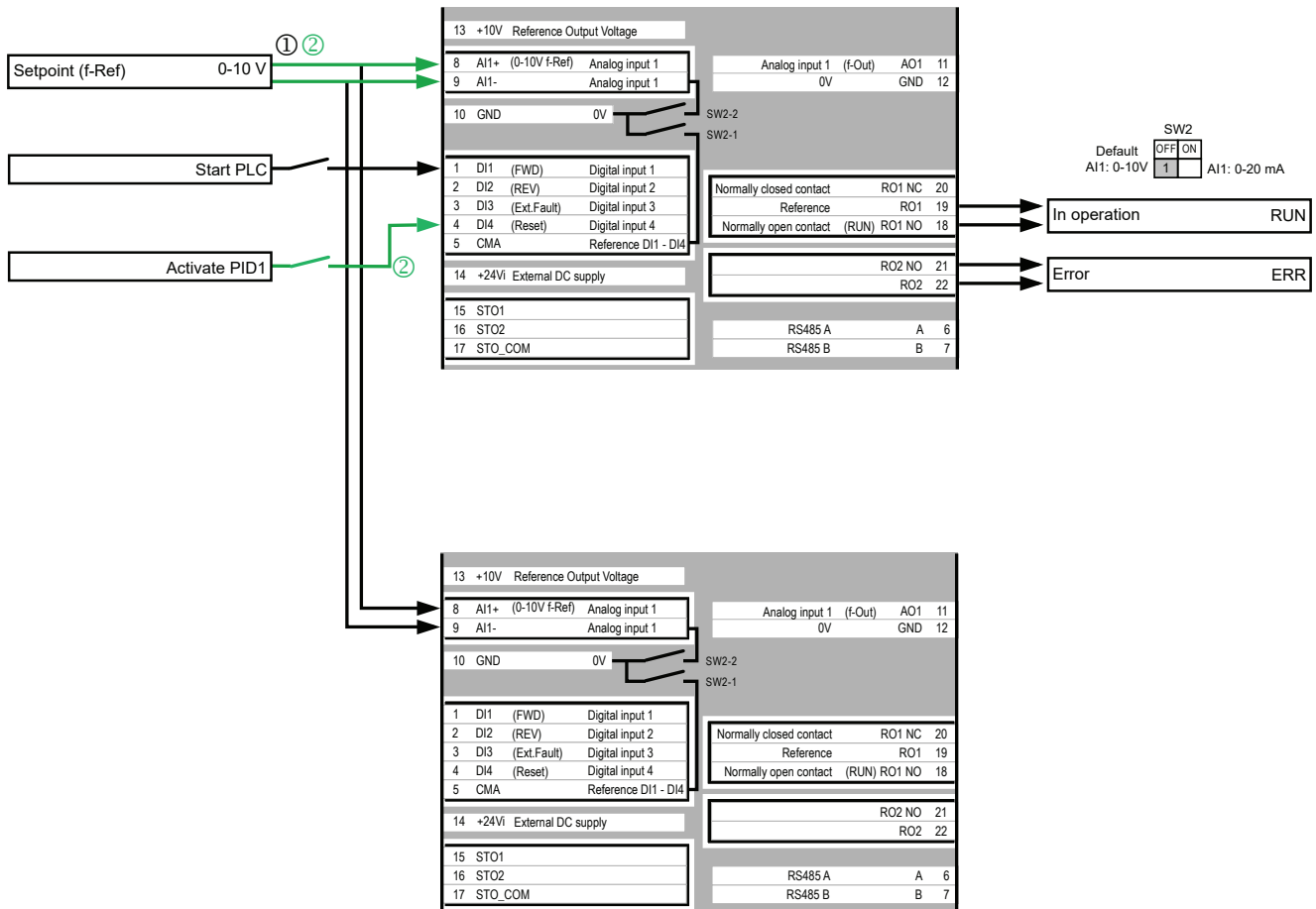
Connection example for a DM1 Pro with the following functions:

- ① Setpoint input via external analog setpoint values
- ② Setpoint input via keyboard, network or the integrated setpoint potentiometer, feedback of the actual value to AI1 and use of the PID controller
- Dual-channel STO



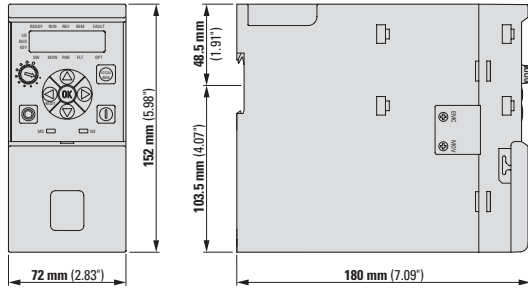
Connection example for master-follower operation where the torque of the slave is the same as that of the master. It is assumed that a rigid coupling will be used. For non-rigid couplings, use the droop function instead of torque transmission to the follower via AO1.

The information about setpoint input / PID usage from the previous example also applies in this case.

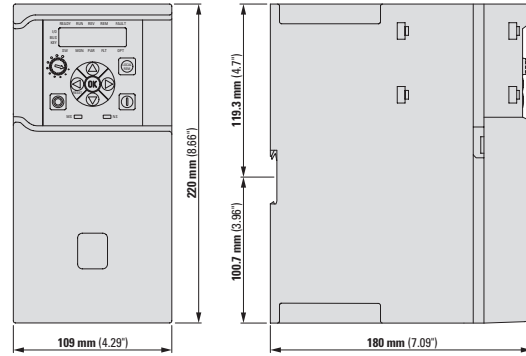


DM1 Pro

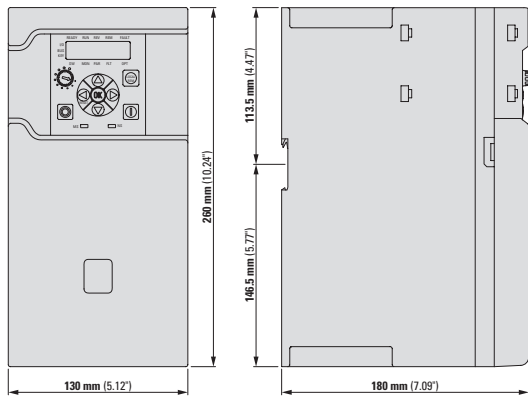
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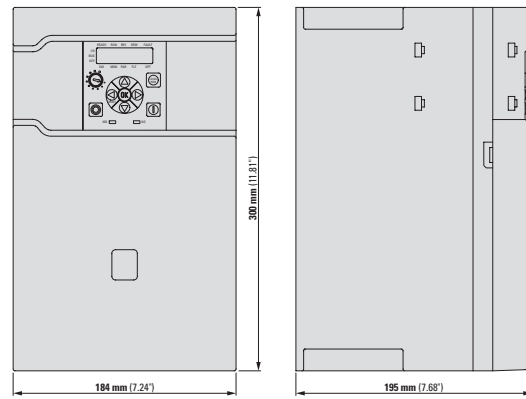
Frame size 2:



Frame size 3:

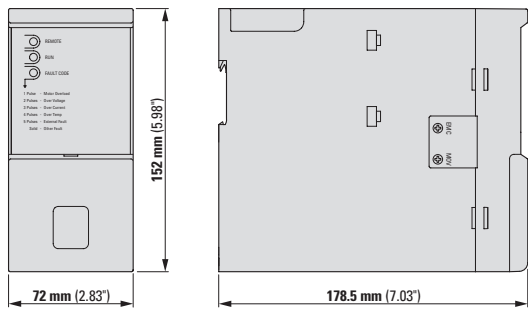


Frame size 4:

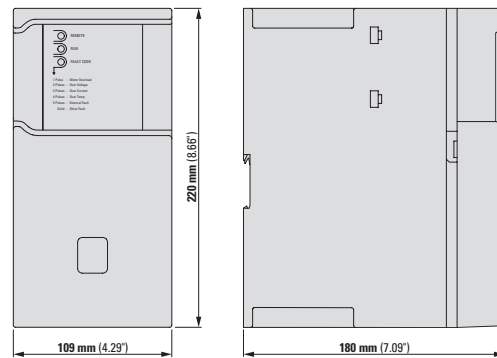


DM1

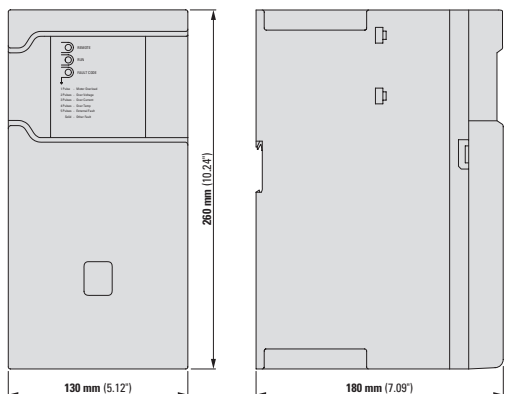
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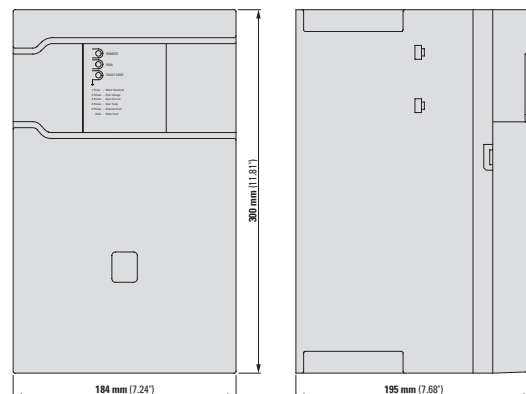
Frame size 2:



Frame size 3:



Frame size 4:

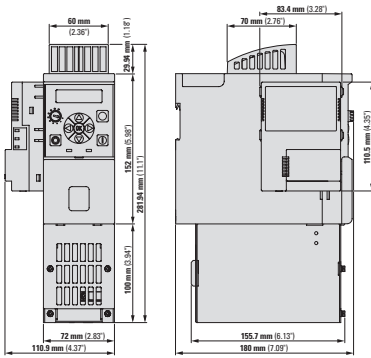


DM1 accessories

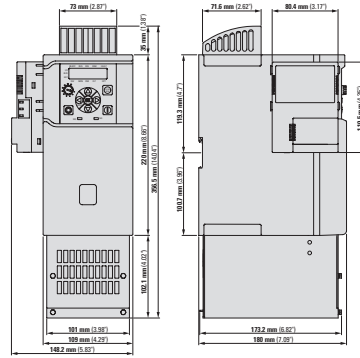
Dimensions

IP21 / NEMA1 kit DM1

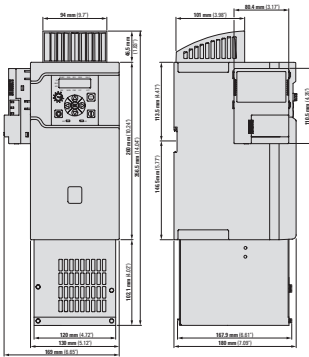
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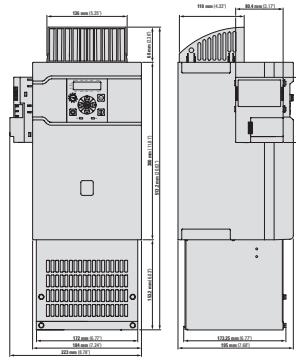
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Frame size 3:

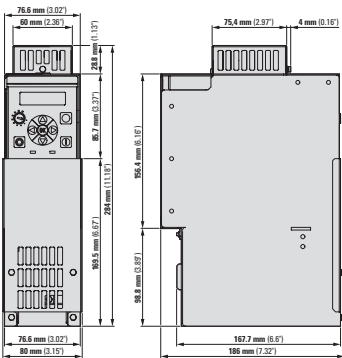


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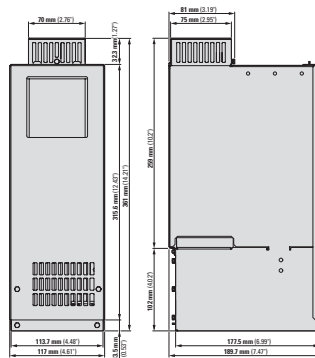


IP21 / NEMA1 kit DM1 100 kA UL plenum rating

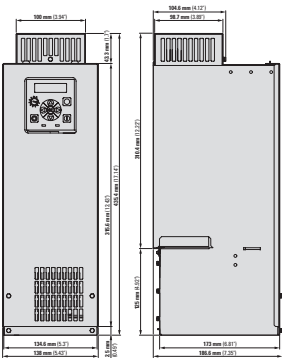
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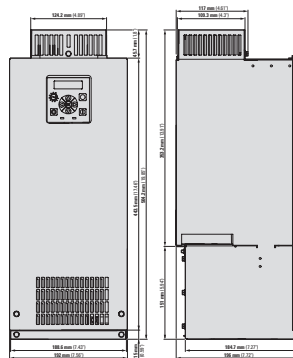
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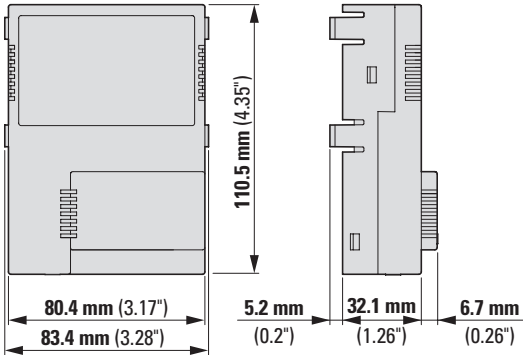
Frame size 3:



Frame size 4:



DM1 Pro network interfaces (PROFIBUS, CANOPEN, PROFINET)



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