



Radio interference suppression filter, three-phase, ULN= max. 520 + 10% V, 42 A, For use with: DC1, DA1, DG1

Part no. DX-EMC34-042
Catalog No. 184503
Alternate Catalog No. DX-EMC34-042

Delivery program

Description			three-phase
Mains voltage (50/60Hz)	U_{LN}	V	max. 520 + 10%
Rated operational current	I_e	A	42
For use with			DC1 DA1 DG1
Degree of Protection			IP20
Connection type			Screw terminal, PE stud
Notes			Separate mounting

Technical data

General

Standards			EN 50178, IEC 61800-3, EN 61800-3 incl. A11
Environmental conditions			
Altitude		m	Up to 2000 m a.s.l.; observe derating at higher altitudes
Degree of Protection			IP20

Rating data for approved types

Short Circuit Current Rating		SCCR	
High fault rating		kA	100

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	42
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	22
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
Degree of Protection			IP20
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Accessories for frequency controller (EC002025)			
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter (accessory) (ecl@ss10.0.1-27-02-31-92 [AFR303003])			
Type of accessory			Filter

Approvals

Product Standards			UL 1283
UL File No.			E192040
North America Certification			UL listed, certified by UL for use in Canada

Additional product information (links)

IL04012018Z*.pdf Radio interference suppression filter for PowerXL	
IL04012018Z*.pdf Radio interference suppression filter for PowerXL	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012018Z2020_07.pdf
MN04020005Z DA1 variable frequency drives, Installation manual	
MN04020005Z Frequenzumrichter DA1, Installationshandbuch - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf
MN04020005Z DA1 variable frequency drives, Installation manual - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf
MN04020005Z Convertitore di frequenza DA1, manuale Installazione - italiano	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_IT.pdf
MN040002 PowerXL DG1 Series VFD, Installation Manual	
MN040002 PowerXL DG1 Serie VFD, Installationshandbuch - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf
MN040002 PowerXL DG1 Series VFD, Installation Manual - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf
MN040002 EFV PowerXL série DG1, Manuel d'installation - français	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_FR.pdf
MN040002 Serie VFD PowerXL DG1, Manuale di installazione - italiano	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_IT.pdf
MN040002 Napęd VFD PowerXL serii DG1, Podręcznik instalacji - polski	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_PL.pdf