



**Radio interference suppression filter, three-phase, low leakage current, ULN= max. 520 + 10% V, 16 A, For use with: DE1, DE11, DC1, DA1, DG1**

**Part no.** DX-EMC34-016-L  
**Catalog No.** 184507  
**Alternate Catalog No.** DX-EMC34-016-L

## Delivery program

Description			three-phase low leakage current
Mains voltage (50/60Hz)	$U_{LN}$	V	max. 520 + 10%
Rated operational current	$I_e$	A	16
For use with			DE1 DE11 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	16
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0
Equipment heat dissipation, current-dependent	$P_{vid}$	W	12
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)

<b>IL04012018Z*.pdf Radio interference suppression filter for PowerXL</b>	
IL04012018Z*.pdf Radio interference suppression filter for PowerXL	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012018Z2020_07.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012018Z2020_07.pdf</a>
<b>MN04020005Z DA1 variable frequency drives, Installation manual</b>	
MN04020005Z Frequenzumrichter DA1, Installationshandbuch - Deutsch	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf</a>
MN04020005Z DA1 variable frequency drives, Installation manual - English	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf</a>
MN04020005Z Convertitore di frequenza DA1, manuale Installazione - italiano	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_IT.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020005Z_IT.pdf</a>
<b>MN04020003Z DC1 variable frequency drives, Installation manual</b>	
MN04020003Z Frequenzumrichter DC1, Installationshandbuch - Deutsch	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_DE.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_DE.pdf</a>
MN04020003Z DC1 variable frequency drives, Installation manual - English	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_EN.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_EN.pdf</a>
MN04020003Z Frekvenční měnič DC1, manuál Instalace - čeština	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_CZ.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_CZ.pdf</a>
MN04020003Z Convertitore di frequenza DC1, manuale Installazione - italiano	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_IT.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04020003Z_IT.pdf</a>
<b>MN040011 DE1 Variable speed starter, Manual</b>	
MN040011 DE1 variabler Drehzahlstarter, Handbuch - Deutsch	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_DE.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_DE.pdf</a>
MN040011 DE1 Variable speed starter, Manual - English	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_EN.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_EN.pdf</a>
MN040011 Démarreur à vitesse variable DE1, manuel d'utilisation - français	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_FR.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_FR.pdf</a>
MN040011 Avviatore a velocità variabile DE1, Manuale - italiano	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_IT.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_IT.pdf</a>
MN040011 Rozrusznik silnikowy z regulacją prędkości DE1, podręcznik - polski	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_PL.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_PL.pdf</a>
MN040011 Устройства пуска с регулировкой скорости DE1, руководство - русский	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_RU.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040011_RU.pdf</a>

**MN040002 PowerXL DG1 Series VFD, Installation Manual**

MN040002 PowerXL DG1 Serie VFD, Installationshandbuch - Deutsch	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf</a>
MN040002 PowerXL DG1 Series VFD, Installation Manual - English	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf</a>
MN040002 EFV PowerXL série DG1, Manuel d'installation - français	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_FR.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_FR.pdf</a>
MN040002 Serie VFD PowerXL DG1, Manuale di installazione - italiano	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_IT.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_IT.pdf</a>
MN040002 Napęd VFD PowerXL serii DG1, Podręcznik instalacji - polski	<a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_PL.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN040002_PL.pdf</a>