

**Sine filter, three-phase, 500 V + 0% (50/60 Hz) V AC, 10 A, For use with:
DC1, DA1, DL1, DG1, SVX, SPX**

**Part no. DX-SIN3-010
271590**

General specifications		
Product name		Eaton DX Sine filter
Part no.		DX-SIN3-010
EAN		4015082715908
Product Length/Depth		155 millimetre
Product height		160 millimetre
Product width		120 millimetre
Product weight		6.1 kilogram
Certifications		Certified by UL for use in Canada IEC/EN61800-3 UL report applies to both US and Canada CE IEC/EN61800-5 UL File No.: E300273 UL 508C CSA-C22.2 No. 14 UL Category Control No.: NMTR2, NMTR8 UL UL
Product Tradename		DX
Product Type		Accessory
Product Sub Type		Sine filter
Features & Functions		
Fitted with:		PE stud Terminations
Number of phases		3
General information		
Accessory/spare part type		Filter
Degree of protection		IP00
Duty factor		100 %
Insulation class		F
Product Category		Accessories
Suitable for		Branch circuits, (UL/CSA)
Used with		DA1, DB1, DC1, DG1, DM1, SPX, SVX
Ambient conditions, mechanical		
Mounting position		Free surrounding areas < 100 mm Standing vertically Suspended horizontally
Climatic environmental conditions		
Altitude		Max. 1000 m Max. 4000 m with current reduction
Ambient operating temperature - max		45 °C
Ambient operating temperature - min		-10 °C
Ambient storage temperature - max		85 °C
Ambient storage temperature - min		-25 °C
Operating temperature details		-10 - 45 °C (up to 70 °C with current derating)
Electrical rating		
Permissible connection voltage		Max. 500 V AC (5 - 150 Hz)
Rated frequency - min		0 Hz
Rated frequency - max		120 Hz
Rated inductance		5.1 mH
Rated operational current (Ie) - max		10 A
Rated operational voltage (Ue) - max		400 V

Voltage rating - max		480 V
Voltage sag Uk		7 %
Design verification		
Heat dissipation capacity P _{diss}		0 W
Rated operational current for specified heat dissipation (I _n)		10 A
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

Low-voltage industrial components (EG000017) / Accessories/spare parts for frequency controller (EC002025)		
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter (accessories) (ecl@ss13-27-02-31-92 [AFR303008])		
Type of accessory/spare part		Filter
Accessory		Yes
Spare part		No