

Sine filter, three-phase, 500 V + 0% (50/60 Hz) V AC, 480 A, For use with:
DA1

Part no. **DX-SIN3-480**
169149

General specifications		
Product name		Eaton DX Sine filter
Part no.		DX-SIN3-480
EAN		4015081656271
Product Length/Depth		439 millimetre
Product height		800 millimetre
Product width		600 millimetre
Product weight		220 kilogram
Compliances		CE
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
Used with		DA1, DG1
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		0.14 mH
Rated operational current (Ie) - max		480 A
Rated operational voltage (Ue) - max		400 V
Voltage sag Uk		7 %
Design verification		
Heat dissipation capacity Pdiss		0 W
Rated operational current for specified heat dissipation (In)		480 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