DATASHEET - DX-SIN3-480

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:	Terminations PE stud
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	DG1 DA1
Ambient conditions, mechanical	
Mounting position	Suspended horizontally Standing vertically Free surrounding areas < 100 mm
Climatic environmental conditions	
Altitude	Max. 4000 m with current reduction Max. 1000 m
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

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