

Specifications



Eaton 172277

Eaton DX Radio interference suppression filter, Single-phase, ULN= max. 250 + 10% V, 31 A, For use with: DC1

General specifications

PRODUCT NAME	Eaton DX Radio interference suppression filter
CATALOG NUMBER	172277
MODEL CODE	DX-EMC12-031-FS3
EAN	4015081688395
PRODUCT LENGTH/DEPTH	155 mm
PRODUCT HEIGHT	310 mm
PRODUCT WIDTH	60 mm
PRODUCT WEIGHT	2.5 kg
CERTIFICATIONS	EN 50178 IEC/EN 61800-3

Climatic environmental conditions

ALTITUDE	Max. 2000 m At higher altitudes observe derating
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Connection

CONNECTION TYPE	Connection terminal, PE stud, prefabricated cables
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Design verification

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.
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	Does not apply, since the

Electrical rating

RATED OPERATIONAL CURRENT (IE) - MAX	31 A
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AGAINST ELECTRIC SHOCK	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.
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	31 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Features & functions

NUMBER OF PHASES	1
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General information

ACCESSORY/SPARE PART TYPE	Filter
DEGREE OF PROTECTION	IP20 IP00 IP20, when connected
PRODUCT CATEGORY	Accessories
USED WITH	DC1 DE1 DM1

Resources

CATALOGUES

[eaton-drives-soft-starter-catalog-ca04020001zen-us.pdf](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

DECLARATIONS OF CONFORMITY

[eaton-accessory-declaration-of-conformity-uk251071en.pdf](#)

[eaton-accessory-declaration-of-conformity-eu250588en.pdf](#)

DRAWINGS

[eaton-regulating-equipment-options-dx-accessory-3d-drawing-008.eps](#)

[eaton-fc-options-emc-filter-dx-emc12-031-fs3-dimensions-8240dim-149.eps](#)

ECAD MODEL

[DA-CE-ETN.DX-EMC12-031-FS3](#)

INSTALLATION INSTRUCTIONS

[IL04012017Z](#)

MCAD MODEL

[dx_emc12_031_fs3.stp](#)

[eaton-accessories-mcad-drawings-dx-emc12-031-fs3.dwg](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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