Specifications

Eaton 271597



Catalog Number: 271597

Eaton DX Sine filter, three-phase, 500 V + 0% (50/60 Hz) V AC, 48 A, For use with: DA1, DL1, DG1, SVX, SPX

General specifications

Product Name
Eaton DX Sine filter

Catalog Number
271597

EAN
4015082715977

Product Length/Depth
240 mm

Product Height
280 mm

Product Width
220 mm

Product Weight
26.2 kg

Certifications
CE
Certified by UL for use in Canada
IEC/EN61800-5
UL report applies to both US and Canada
CSA-C22.2 No. 14
IEC/EN61800-3
UL File No.: E300273
UL Category Control No.: NMTR2, NMTR8
UL 508C
UL

Powering Business Worldwide

Product specifications

Used with

DC1

DA1

DM1

DG1

Product Category

Accessories

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.

Resources

Catalogs

Product Range Catalog Drives Engineering

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Declarations of conformity

DA-DC-00004507.pdf

Drawings

eaton-fc-options-sinus-filter-dx-sin3-048-dimensions-9100dim-11.eps

eaton-transformers-dx-sine-filter-3d-drawing.eps

eCAD model

DA-CE-ETN.DX-SIN3-048

Installation instructions

IL00906001Z

Manuals and user guides

MN040002_EN

MN04020003Z_EN

MN04020005Z_EN

MN040060EN

mCAD model

DA-CS-dx_sin3_048_271597

DA-CD-dx_sin3_048_271597

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.

Fitted with:

PE stud
Terminations

Accessory/spare part type

Filter

Altitude

Max. 1000 m
Max. 4000 m with current reduction

Ambient operating temperature - max

45 °C

Ambient operating temperature - min

-10 °C

Rated frequency - max

120 Hz

Rated frequency - min

0 Hz

Rated inductance

1.2 mH

Ambient storage temperature - max

85 °C

Ambient storage temperature - min

-25 °C

Equipment heat dissipation, current-dependent Pvid

240 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Number of phases

3

Mounting position

Free surrounding areas < 100 mm
Standing vertically
Suspended horizontally

Duty factor

100 %

Degree of protection

IP00

Terminal capacity

20 - 6 AWG

Insulation class

F

Rated operational voltage (Ue) - max

400 V

Rated operational current (Ie) - max

48 A

Operating temperature details

-10 - 45 °C (up to 70 °C with current derating)

Rated operational current for specified heat dissipation (In)

48 A

Static heat dissipation, non-current-dependent Pvs

0 W

Voltage rating - max

480 V

Voltage sag Uk

7.8 %

Permissible connection voltage

Max. 500 V AC (5 - 150 Hz)

Suitable for

Branch circuits, (UL/CSA)

Tightening torque

1.5 Nm, Screw terminals

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