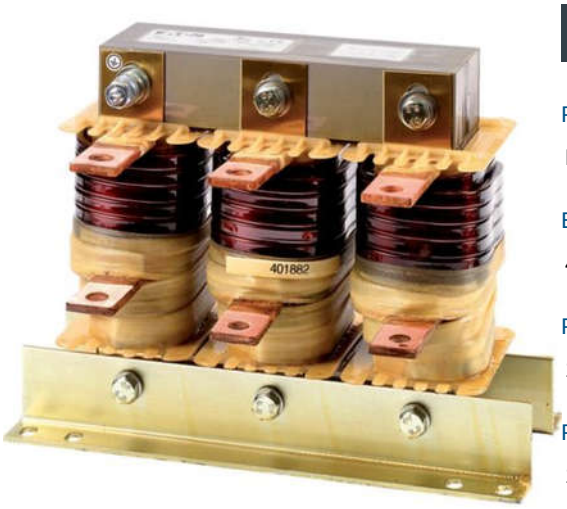
Specifications

Eaton 269509

Catalog Number: 269509

Eaton DX Main choke, three-phase, 550 V + 0% (50/60 Hz), V AC, 100 A, 0.18 mH



General specifications

Product Name
Eaton DX Mains choke

Catalog Number
269509

EAN
4015082695095

Product Length/Depth
130 mm

Product Height
160 mm

Product Width
220 mm

Product Weight
10.2 kg

Compliances
CE Marked

Certifications
UL 508C
EN 61800-3
CSA Std. C22.2 No. 14
IEC 61800-5
VDE
IEC/EN 61558-2-20-2000
IEC/EN61800-5
UL File No.: E167225
UL Category Control No.: XPTQ2, XPTQ8
CSA-C22.2 No. 14
Certified by UL for use in Canada
IEC/EN61800-3
UL report applies to both US and Canada
VDE 0570 Part 2-20/2001-04
CE
UL
CSA

Powering Business Worldwide

Product specifications

Used with

DA1

Product Category

Accessories

Suitable as

Net reactance coil

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

Resources

Catalogs

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

Product Range Catalog Drives Engineering

Declarations of conformity

DA-DC-00004440.pdf

DA-DC-00004428.pdf

Drawings

eaton-regulating-equipment-options-dx-main-choke-dimensions-009.eps

eaton-regulating-equipment-options-dx-main-choke-3d-drawing-002.eps

eCAD model

ETN.DX-LN3-100

Installation instructions

IL00906003Z

Manuals and user guides

MN04020005Z_EN

MN04020003Z_EN

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:

Connection lugs
PE stud

Frequency rating

50-60 Hz

Altitude

Max. 1000 m
Max. 5000 m with current reduction

Ambient operating temperature - max

40 °C

Ambient operating temperature - min

-25 °C

Rated current (Ith) at rated voltage DC - max

100 A

Rated frequency - max

60 Hz

Rated frequency - min

50 Hz

Rated inductance

0.18 mH

Ambient storage temperature - max

85 °C

Ambient storage temperature - min

-25 °C

Bore diameter

9 mm

Equipment heat dissipation, current-dependent Pvid

101 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 > 50 mm

Standing vertically

Suspended horizontally

Connection lug

Cu 20 x 3 mm²

Duty factor

100 %

Degree of protection

IP00

NEMA Other

Relative short-circuit voltage

2.5 %

Insulation class

B

Rated operational voltage (Ue) - max

550 V

Rated operational current (Ie) - max

100 A

Rated operational current (Ie) - min

100 A

Resonance frequency

0 Hz

Number of poles

Three-pole

Operating temperature details

-25 - 40 °C (up to 70 °C with current derating)

Rated operational current for specified heat dissipation (In)

100 A

Static heat dissipation, non-current-dependent Pvs

0 W

Voltage rating - max

480 V

Voltage sag Uk

2.5 %

Vibration resistance

10 - 55 Hz, 0.35 mm

0 - 150 Hz, 1 g

Permissible connection voltage

Max. 550 V AC (50/60 Hz)

Shock resistance

Shock duration: 11 ms

3 shocks

Suitable for

Branch circuits, (UL/CSA)

Switching frequency

0 kHz

Tightening torque

6 Nm, Screw terminals



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

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



Eaton.com/socialmedia