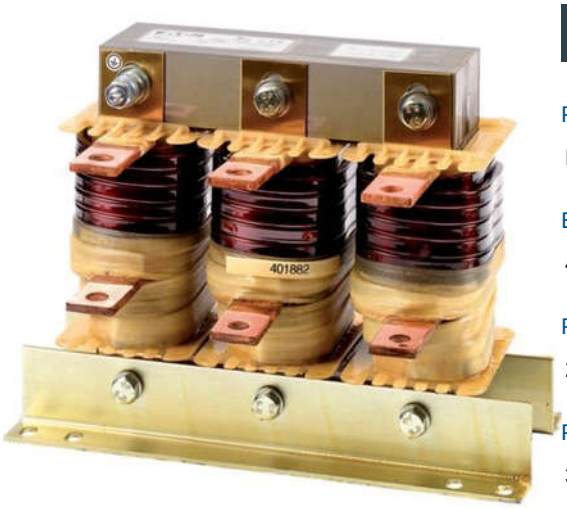
Specifications

Eaton 269547

Catalog Number: 269547

Eaton DX Motor choke, three-phase, 750 V + 0% (0 - 400 Hz), V AC, 100 A, 0.45 mH



General specifications

Product Name
Eaton DX Motor choke

Catalog Number
269547

EAN
4015082695477

Product Length/Depth
215 mm

Product Height
258 mm

Product Width
384 mm

Product Weight
31 kg

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

Powering Business Worldwide

Product specifications

Used with

DG1

DA1

Product Category

Accessories

Suitable as

Ripple filter choke

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-00004438.pdf

DA-DC-00004430.pdf

Drawings

eaton-regulating-equipment-options-dx-motor-choke-dimensions-003.eps

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

eCAD model

ETN.DX-LM3-100

Installation instructions

IL00906003Z

Manuals and user guides

MN04020005Z_EN

MN04020003Z_EN

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:

Connection lugs
PE stud

Frequency rating

50-60 Hz

Altitude

Max. 5000 m with current reduction
Max. 1000 m

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

400 Hz

Rated frequency - min

0 Hz

Rated inductance

0.45 mH

Ambient storage temperature - max

85 °C

Ambient storage temperature - min

-25 °C

Bore diameter

9 mm

Equipment heat dissipation, current-dependent Pvid

177 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 2 mm²

Duty factor

100 %

Degree of protection

IP00
NEMA Other

Relative short-circuit voltage

0 %

Insulation class

F

Rated operational voltage (Ue) - max

750 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

Vibration resistance

0 - 150 Hz, 1 g

10 - 55 Hz, 0.35 mm

Permissible connection voltage

Max. 550 V AC (0 - 400 Hz)

Power loss

177 W (3 kHz)

279 W (5 kHz)

294 W (12 kHz)

Shock resistance

3 shocks

Shock duration: 11 ms

Suitable for

Branch circuits, (UL/CSA)

Switching frequency

0 kHz

Tightening torque

6 Nm, Screw terminals



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