DATASHEET - DX-LN3-080

Main choke, three-phase, 550 V + 0% (50/60 Hz), V AC, 80 A, 0.23 mH

Part no. **DX-LN3-080**
269508

Powering Business Worldwide

General specifications

Product name	Eaton DX Mains choke
Part no.	DX-LN3-080
EAN	4015082695088
Product Length/Depth	110 millimetre
Product height	160 millimetre
Product width	220 millimetre
Product weight	7.3 kilogram
Compliances	CE Marked
Certifications	UL 508C EN 61800-3 IEC 61800-5 CSA Std. C22.2 No. 14 VDE IEC/EN61800-3 UL UL File No.: E167225 CSA-C22.2 No. 14 VDE 0570 Part 2-20/2001-04 IEC/EN 61558-2-20-2000 IEC/EN61800-5 UL Category Control No.: XPTQ2, XPTQ8 CE CSA Certified by UL for use in Canada UL report applies to both US and Canada
Product Tradename	DX
Product Type	Accessory
Product Sub Type	Mains choke

Features & Functions

Fitted with:	Connection lugs PE stud
Number of phases	3
Number of poles	Three-pole

General information

Bore diameter	9 mm
Degree of protection	IP00 NEMA Other
Duty factor	100 %
Frequency rating	50-60 Hz
Insulation class	B
Product Category	Accessories
Suitable as	Net reactance coil
Suitable for	Branch circuits, (UL/CSA)
Switching frequency	0 kHz
Used with	SPX DL1 DA1 SVX DA1, DM1

Ambient conditions, mechanical

Mounting position	Suspended horizontally Standing vertically Free surrounding areas > 50 mm
Shock resistance	3 shocks Shock duration: 11 ms
Vibration resistance	10 - 55 Hz, 0.35 mm 0 - 150 Hz, 1 g

Climatic environmental conditions

Altitude	Max. 1000 m Max. 5000 m with current reduction
Ambient operating temperature - max	40 °C
Ambient operating temperature - min	-25 °C
Ambient storage temperature - max	85 °C
Ambient storage temperature - min	-25 °C
Operating temperature details	-25 - 40 °C (up to 70 °C with current derating)

Terminal capacities

Tightening torque	6 Nm, Screw terminals

Connection

Connection lug	Cu 20 x 3 mm^2

Electrical rating

Permissible connection voltage	Max. 550 V AC (50/60 Hz)
Rated current (Ith) at rated voltage DC - max	80 A
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated inductance	0.23 mH
Rated operational current (Ie) - min	80 A
Rated operational current (Ie) - max	80 A
Rated operational voltage (Ue) - max	550 V
Relative short-circuit voltage	2.5 %
Voltage rating - max	480 V
Voltage sag Uk	2.5 %

Design verification

Heat dissipation capacity Pdiss	0 W
Rated operational current for specified heat dissipation (In)	80 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) / Coil for low-voltage (EC002563)

Electric engineering, automation, process control engineering / Electronic coil and filter / Electronic choke coil / Electronic choke coil (unspecified) (ecl@ss13-27-42-01-90 [ADJ199012])

Suitable as interference suppression reactance coil	No
Suitable as net reactance coil	Yes

Suitable as commutation reactance coil		No
Suitable as ripple filter choke		No
Suitable as output reactance coil		No
Number of poles, primary side		3
Rated clock frequency	kHz	0
Rated operating frequency	Hz	50 - 60
Max. rated operation voltage Ue	V	550
Rated current AC	A	80 - 80
Max. rated current (Ith) at rated voltage DC	A	80
Rated inductance	mH	0.23
Degree of protection (IP)		IP00
Relative short circuit voltage	%	2.5
Resonance frequency	Hz	0
Degree of protection (NEMA)		Other