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

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