

Part no. **DX-LM3-016**
269542

General specifications		
Product name		Eaton DX Motor choke
Part no.		DX-LM3-016
EAN		4015082695422
Product Length/Depth		265 millimetre
Product height		265 millimetre
Product width		270 millimetre
Product weight		4.8 kilogram
Certifications		IEC/EN61800-5 UL Category Control No.: XPTQ2, XPTQ8 CSA-C22.2 No. 14 VDE 0570 Part 2-20/2001-04 UL CSA UL 508C UL File No.: E167225 UL report applies to both US and Canada IEC/EN61800-3 IEC/EN 61558-2-20-2000 Certified by UL for use in Canada CE CSA UL
Product Tradename		DX
Product Type		Accessory
Product Sub Type		Motor choke
Features & Functions		
Fitted with:		PE stud Terminations
Number of phases		3
Number of poles		Three-pole
General information		
Degree of protection		IP20 NEMA Other
Duty factor		100 %
Insulation class		B
Product Category		Accessories
Suitable as		Ripple filter choke
Suitable for		Branch circuits, (UL/CSA)
Switching frequency		0 kHz
Used with		DA1, DC1, DE1, DE11, DG1, DM1, SPX, SVX
Ambient conditions, mechanical		
Mounting position		Free surrounding areas > 50 mm Suspended horizontally Standing vertically
Shock resistance		3 shocks Shock duration: 11 ms
Vibration resistance		0 - 150 Hz, 1 g 10 - 55 Hz, 0.35 mm
Climatic environmental conditions		
Altitude		Max. 5000 m with current reduction Max. 1000 m
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		
Terminal capacity		20 - 10 AWG 4 mm ²
Tightening torque		0.8 Nm, Screw terminals
Electrical rating		
Permissible connection voltage		Max. 550 V AC (0 - 400 Hz)
Power loss		78 W (12 kHz) 50 W (3 kHz) 75 W (5 kHz)
Rated current (I _{th}) at rated voltage DC - max		16 A
Rated frequency - min		0 Hz
Rated frequency - max		400 Hz
Rated inductance		1.5 mH
Rated operational current (I _e) - min		16 A
Rated operational current (I _e) - max		16 A
Rated operational voltage (U _e) - max		750 V
Relative short-circuit voltage		0 %
Voltage rating - max		480 V
Design verification		
Heat dissipation capacity P _{diss}		0 W
Rated operational current for specified heat dissipation (I _n)		16 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		No
Suitable as commutation reactance coil		No
Suitable as ripple filter choke		Yes
Suitable as output reactance coil		No
Number of poles, primary side		3
Rated clock frequency	kHz	0
Rated operating frequency	Hz	0 - 400

Max. rated operation voltage Ue	V	750
Rated current AC	A	16 - 16
Max. rated current (Ith) at rated voltage DC	A	16
Rated inductance	mH	1.5
Degree of protection (IP)		IP20
Relative short circuit voltage	%	0
Resonance frequency	Hz	0
Degree of protection (NEMA)		Other