

Motor choke, three-phase, 750 V + 0% (0 - 400 Hz), V AC, 35 A, 1 mH



**Part no. DX-LM3-035  
269543**

General specifications		
Product name		Eaton DX Motor choke
Part no.		DX-LM3-035
EAN		4015082695439
Product Length/Depth		265 millimetre
Product height		265 millimetre
Product width		270 millimetre
Product weight		7.3 kilogram
Compliances		CE Marked
Certifications		CSA Std. C22.2 No. 14 IEC 61800-5 EN 61800-3 UL 508C VDE CSA IEC/EN61800-3 Certified by UL for use in Canada VDE 0570 Part 2-20/2001-04 UL Category Control No.: XPTQ2, XPTQ8 IEC/EN 61558-2-20-2000 IEC/EN61800-5 CSA-C22.2 No. 14 UL report applies to both US and Canada CE UL File No.: E167225 UL UL CSA
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 %
Frequency rating		50-60 Hz
Insulation class		B
Product Category		Accessories
Suitable as		Ripple filter choke
Suitable for		Branch circuits, (UL/CSA)
Switching frequency		0 kHz
Used with		DG1 DA1 SVX DC1 DL1 SPX DA1, DC1, DG1, DM1, SPX, SVX
Ambient conditions, mechanical		
Mounting position		Suspended horizontally Standing vertically Free surrounding areas > 50 mm
Shock resistance		3 shocks Shock duration: 11 ms
Vibration resistance		0 - 150 Hz, 1 g 10 - 55 Hz, 0.35 mm

<b>Climatic environmental conditions</b>	
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)
<b>Terminal capacities</b>	
Terminal capacity	20 - 10 AWG 4 mm <sup>2</sup>
Tightening torque	0.8 Nm, Screw terminals
<b>Electrical rating</b>	
Permissible connection voltage	Max. 550 V AC (0 - 400 Hz)
Power loss	116 W (12 kHz) 114 W (5 kHz) 75 W (3 kHz)
Rated current (Ith) at rated voltage DC - max	35 A
Rated frequency - min	0 Hz
Rated frequency - max	400 Hz
Rated inductance	1 mH
Rated operational current (Ie) - min	35 A
Rated operational current (Ie) - max	35 A
Rated operational voltage (Ue) - max	750 V
Relative short-circuit voltage	0 %
Voltage rating - max	480 V
<b>Design verification</b>	
Heat dissipation capacity Pdiss	0 W
Rated operational current for specified heat dissipation (In)	35 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	35 - 35
Max. rated current (Ith) at rated voltage DC		A	35
Rated inductance		mH	1
Degree of protection (IP)			IP20
Relative short circuit voltage		%	0
Resonance frequency		Hz	0
Degree of protection (NEMA)			Other