# DATASHEET - DX-LM3-370

**Motor choke, three-phase, 750 V + 0% (0 - 400 Hz), V AC, 370 A, 0.12 mH**

**Part no.** **DX-LM3-370**
**169147**

Powering Business Worldwide™

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|---|---|
| **General specifications** | |
| Product name | Eaton DX Motor choke |
| Part no. | DX-LM3-370 |
| EAN | 4015081656257 |
| Product Length/Depth | 600 millimetre |
| Product height | 750 millimetre |
| Product width | 800 millimetre |
| Product weight | 61.7 kilogram |
| Certifications | IEC/EN 61558-2-20-2000<br>Certified by UL for use in Canada<br>IEC/EN61800-5<br>VDE 0570 Part 2-20/2001-04<br>UL File No.: E167225<br>UL report applies to both US and Canada<br>CSA-C22.2 No. 14<br>IEC/EN61800-3<br>UL<br>UL Category Control No.: XPTQ2, XPTQ8<br>CSA<br>UL 508C<br>CE<br>CSA<br>UL |
| Product Tradename | DX |
| Product Type | Accessory |
| Product Sub Type | Motor choke |
| **Features & Functions** | |
| Fitted with: | PE stud<br>Connection lugs |
| Number of phases | 3 |
| Number of poles | Three-pole |
| **General information** | |
| Bore diameter | 14 mm |
| Degree of protection | IP00<br>NEMA Other |
| Duty factor | 100 % |
| Insulation class | F |
| Product Category | Accessories |
| Suitable as | Output reactance coil |
| Suitable for | Branch circuits, (UL/CSA) |
| Switching frequency | 3 kHz |
| Used with | DA1, DG1, SPX |
| **Ambient conditions, mechanical** | |
| Mounting position | Free surrounding areas > 50 mm<br>Suspended horizontally<br>Standing vertically |
| Shock resistance | Shock duration: 11 ms<br>3 shocks |
| Vibration resistance | 10 - 55 Hz, 0.35 mm<br>0 - 150 Hz, 1 g |
| **Climatic environmental conditions** | |
| Altitude | Max. 5000 m with current reduction<br>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 |

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| Operating temperature details | | -25 - 40 °C (up to 70 °C with current derating) |
| **Terminal capacities** | | |
| Tightening torque | | 15.5 Nm, Screw terminals |
| **Connection** | | |
| Connection lug | | Cu 40 x 5 $mm^2$ |
| **Electrical rating** | | |
| Permissible connection voltage | | Max. 550 V AC (0 - 400 Hz) |
| Power loss | | 685 W (3 kHz) |
| Rated current (Ith) at rated voltage DC - max | | 0 A |
| Rated frequency - min | | 0 Hz |
| Rated frequency - max | | 400 Hz |
| Rated inductance | | 0.12 mH |
| Rated operational current (Ie) - min | | 370 A |
| Rated operational current (Ie) - max | | 370 A |
| Rated operational voltage (Ue) - max | | 750 V |
| Relative short-circuit voltage | | 20.2 % |
| Voltage rating - max | | 480 V |
| **Design verification** | | |
| Heat dissipation capacity Pdiss | | 0 W |
| Rated operational current for specified heat dissipation (In) | | 370 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 | | No |
| Suitable as output reactance coil | | Yes |
| Number of poles, primary side | | 3 |
| Rated clock frequency | kHz | 3 |

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|---|---|---|---|
| Rated operating frequency | | Hz | 0 - 400 |
| Max. rated operation voltage Ue | | V | 750 |
| Rated current AC | | A | 370 - 370 |
| Max. rated current (Ith) at rated voltage DC | | A | 0 |
| Rated inductance | | mH | 0.12 |
| Degree of protection (IP) | | | IP00 |
| Relative short circuit voltage | | % | 20.2 |
| Resonance frequency | | Hz | 0 |
| Degree of protection (NEMA) | | | Other |