

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 | | |
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| 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 | | |

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| 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

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| 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 |

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| 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 |