

Main choke, three-phase, 550 V + 0% (50/60 Hz), V AC, 40 A, 0.64 mH

 Part no. **DX-LN3-040**
269505

| General specifications | |
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| Product name | Eaton DX Mains choke |
| Part no. | DX-LN3-040 |
| EAN | 4015082695057 |
| Product Length/Depth | 104 millimetre |
| Product height | 188 millimetre |
| Product width | 195 millimetre |
| Product weight | 4.8 kilogram |
| Certifications | CE CSA-C22.2 No. 14 IEC/EN 61558-2-20-2000 UL File No.: E167225 UL 508C IEC/EN61800-5 UL report applies to both US and Canada CSA UL Category Control No.: XPTQ2, XPTQ8 Certified by UL for use in Canada IEC/EN61800-3 UL VDE 0570 Part 2-20/2001-04 |
| Product Tradename | DX |
| Product Type | Accessory |
| Product Sub Type | Mains 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 | Net reactance coil |
| Suitable for | Branch circuits, (UL/CSA) |
| Switching frequency | 0 kHz |
| Used with | DA1, DC1, DM1, SPX, SVX |
| Ambient conditions, mechanical | |
| Mounting position | Standing vertically Free surrounding areas > 50 mm Suspended horizontally |
| Shock resistance | Shock duration: 11 ms 3 shocks |
| Vibration resistance | 0 - 150 Hz, 1 g 10 - 55 Hz, 0.35 mm |
| 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 | |

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| Terminal capacity | | 20 - 6 AWG 10 mm ² |
| Tightening torque | | 1.5 Nm, Screw terminals |
| Electrical rating | | |
| Permissible connection voltage | | Max. 550 V AC (50/60 Hz) |
| Rated current (I _{th}) at rated voltage DC - max | | 40 A |
| Rated frequency - min | | 50 Hz |
| Rated frequency - max | | 60 Hz |
| Rated inductance | | 0.46 mH |
| Rated operational current (I _e) - min | | 40 A |
| Rated operational current (I _e) - max | | 40 A |
| Rated operational voltage (U _e) - max | | 550 V |
| Relative short-circuit voltage | | 2.5 % |
| Voltage rating - max | | 480 V |
| Voltage sag U _k | | 2.5 % |
| Design verification | | |
| Heat dissipation capacity P _{diss} | | 0 W |
| Rated operational current for specified heat dissipation (I _n) | | 40 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 |
| 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 U _e | V | 550 |
| Rated current AC | A | 40 - 40 |

| | | |
|---|----|-------|
| Max. rated current (I _{th}) at rated voltage DC | A | 40 |
| Rated inductance | mH | 0.46 |
| Degree of protection (IP) | | IP20 |
| Relative short circuit voltage | % | 2.5 |
| Resonance frequency | Hz | 0 |
| Degree of protection (NEMA) | | Other |