

Main choke, AC, 1p, 18A, 1.63mH, 260V50/60Hz

Part no. **DX-LN1-018**
Article no. **269497**
Catalog No. **DX-LN1-018**

Delivery program

| | | | |
|-------------------------------------|-------|------|-----------------------|
| Product range | | | Accessories |
| Accessories | | | Mains chokes |
| Description | | | Single-phase |
| For use with | | | DE1, DE11, DC1, DA1 |
| Max. permissible connection voltage | | V AC | 260 V + 0% (50/60 Hz) |
| Rated operational current | I_e | A | 18 |
| Inductance | L | mH | 1.63 |
| Maximum heat dissipation | P_v | W | 17 |

Technical data

General

| | | | |
|-----------------------------|----------|------|---|
| Standards | | | IEC/EN 61558-2-20-2000, VDE 0570 Part 2-20/2001-04, UL, CSA |
| Operating temperature | | °C | -25 to +40, up to 70 with current derating (see the note) |
| Storage temperature | θ | °C | -25 - +85 |
| Mechanical shock resistance | | g | 11 ms ² /15 3 shocks |
| Vibration resistance | | g | 1 (0 - 150 Hz) |
| Vibration | | | 0.35 mm at 10 - 55 Hz |
| Altitude | | m | 0 – 1000 above sea level, up to 5000 with current reduction (see notes) |
| Mounting position | | | Standing vertically, suspended horizontally |
| Free surrounding areas | | MM | < 50 |
| Degree of Protection | | | IP20 (terminal) |
| Rated duty factor | | % DF | 100 |
| Weight | | kg | 1.5 |

Electrical data

| | | | |
|---------------------------|-------|------|-----------------------|
| Rated operational voltage | | | 1 AC 230 V |
| Max. supply voltage | | V AC | 260 V + 0% (50/60 Hz) |
| Operating frequency | f | Hz | 50/60 |
| Insulation class | | | B |
| Rated operational current | I_e | A | 18 |
| Inductance | L | mH | 1.63 |
| Maximum heat dissipation | P_v | W | 17 |
| Voltage sag | U_k | % | 4 |

Connection

| | | | |
|-------------------|--|-----------------|---------|
| Terminations | | | ✓ |
| PE stud | | | ✓ |
| Terminal | | mm ² | 4 |
| Terminal | | AWG | 20 - 10 |
| Tightening torque | | Nm | 0.8 |

Notes

| | | | |
|--|--|--|--|
| | | | <p>The following applies for the installation altitude: Derating with respect to the rated operational current I_e:</p> |
|--|--|--|--|

Design verification as per IEC/EN 61439

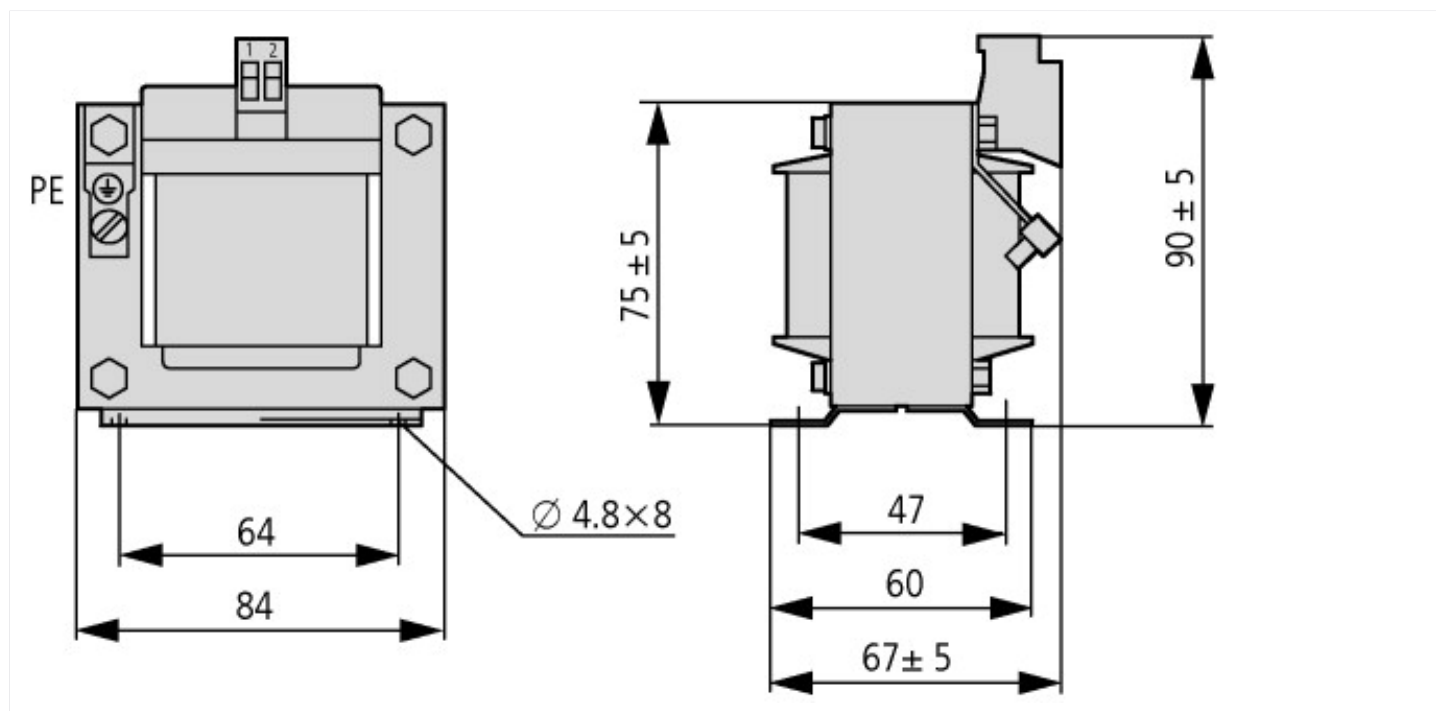
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|--|--|--|--|
| Technical data for design verification | | | |
|--|--|--|--|

| | | | |
|--|------------|----|--|
| Rated operational current for specified heat dissipation | I_n | A | 18 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 17 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 40 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | | | |
| 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 6.0

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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@ss8.1-27-42-01-90 [ADJ199004]) | | | |
| 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 | | | 1 |
| Rated clock frequency | | kHz | 0 |
| Rated operation frequency | | Hz | 50 - 60 |
| Max. rated operation voltage U_e | | V | 260 |
| Rated current at AC | | A | 18 - 18 |
| Max. rated current (I_{th}) at rated voltage DC | | A | 18 |
| Rated inductance | | mH | 1.63 |
| Degree of protection (IP) | | | IP20 |
| Relative short circuit voltage | | % | 4 |
| Resonance frequency | | Hz | 0 |

Dimensions



Additional product information (links)

| | |
|--|---|
| IL00906001Z Mains chokes, motor chokes | |
| IL00906001Z Mains chokes, motor chokes | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL00906003Z2012_10.pdf |
| MN04020003Z DC1 variable frequency drives, Installation manual | |
| MN04020003Z Frequenzumrichter DC1, Handbuch - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_DE.pdf |
| MN04020003Z DC1 variable frequency drive, manual - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_EN.pdf |
| MN04020003Z Frekvenční měnič DC1, manuál - čeština | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_CZ.pdf |
| MN04020003Z Convertitori di frequenza DC1, manuale - italiano | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020003Z_IT.pdf |
| MN04020005Z DA1 variable frequency drives, Installation manual | |
| MN04020005Z Frequenzumrichter DA1, Handbuch - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf |
| MN04020005Z DA1 variable frequency drive, manual - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf |
| CA04020001Z-DE Sortimentskatalog: Antriebstechnik effizient gestalten, Motoren starten und steuern | http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238_de.pdf |