



Sine filter, three-phase, 500 V + 0% (50/60 Hz) V AC, 480 A, For use with: DA1

Part no. **DX-SIN3-480**
 Catalog No. **169149**
 Alternate Catalog No. **DX-SIN3-480**

Delivery program

| | | | |
|-------------------------------------|-------|------|-----------------------|
| Product range | | | Accessories |
| Accessories | | | Sine filter |
| Description | | | three-phase |
| For use with | | | DA1, DG1 |
| Max. permissible connection voltage | | V AC | 500 V + 0% (50/60 Hz) |
| Rated operational current | I_e | A | 480 |
| Inductance | L | mH | 0.14 |
| Maximum heat dissipation | P_v | W | 1550 |

Technical data

General

| | | | |
|------------------------|----------|------|--|
| Operating temperature | | °C | -10 - +45 |
| Storage | θ | °C | -25 - +85 |
| Altitude | | m | 0 - 1000 a.s.l., up to 4000 with current reduction |
| Mounting position | | | Standing vertically, suspended horizontally |
| Free surrounding areas | | MM | > 100 |
| Degree of Protection | | | IP00 |
| Rated duty factor | | % DF | 100 |
| Weight | | kg | 220 |

Electrical data

| | | | |
|-------------------------------------|-------|------|--------------------------|
| Rated operational voltage | | | 3 AC 230 V 3 AC 400 V |
| Max. permissible connection voltage | | V AC | 500 V + 0% (50/60 Hz) |
| Rated frequency | f | Hz | 0 - 120 |
| Insulation class | | | H |
| Rated operational current | I_e | A | 480 |
| Inductance | L | mH | 0.14 |
| Maximum heat dissipation | P_v | W | 1550 |
| Voltage sag | U_k | % | 7 |

Connection

| | | | |
|--------------|--|-----------------|-----|
| Terminations | | | ✓ |
| PE stud | | | ✓ |
| Terminal | | mm ² | 150 |

Design verification as per IEC/EN 61439

| | | | |
|--|------------|----|------|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 480 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 1550 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -10 |
| Operating ambient temperature max. | | °C | 45 |
| 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 7.0

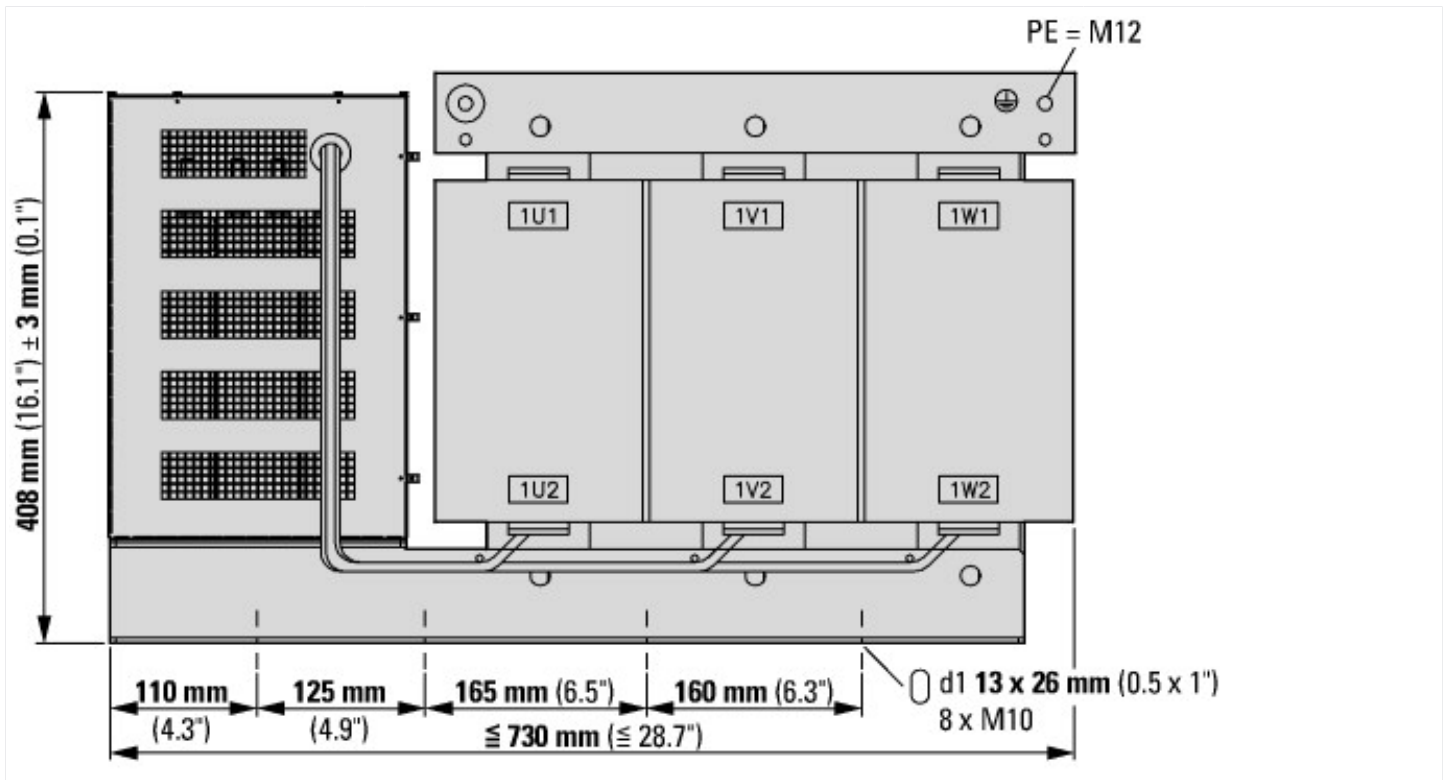
Low-voltage industrial components (EG000017) / Accessories for frequency controller (EC002025)

Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter (accessory) (ecl@ss10.0.1-27-02-31-92 [AFR303003])

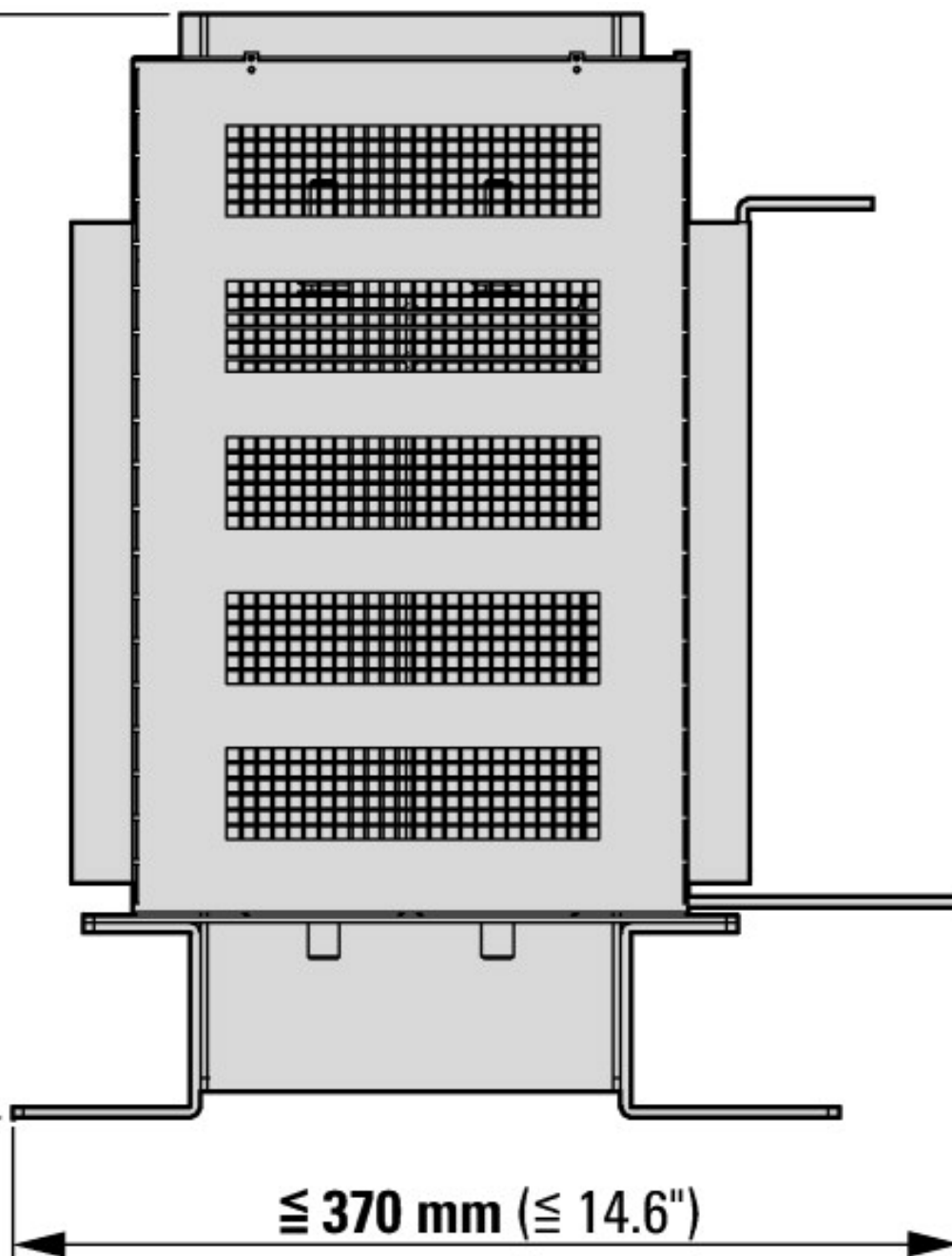
Type of accessory

Filter

Dimensions



425 mm (16.7") ± 3 mm (0.1")



≤ 370 mm (≤ 14.6")

Additional product information (links)

CA04020001Z-EN Product Range Catalog: Efficient Engineering for Starting and Controlling Motors

http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238.pdf