


EMC filter for variable frequency drives, 3-phase 520 V, 75 A

Part no. DX-EMC34-075
Catalog No. 184505
Eaton Catalog No. DX-EMC34-075

Delivery program

| | | | |
|---------------------------|----------|---|-------------------------|
| Description | | | three-phase |
| Mains voltage (50/60Hz) | U_{LN} | V | max. 520 + 10% |
| Rated operational current | I_e | A | 75 |
| For use with | | | DA1 DG1 |
| Degree of Protection | | | IP20 |
| Connection type | | | Screw terminal, PE stud |
| Notes | | | Separate mounting |

Technical data

General

| | | | |
|--------------------------|--|---|---|
| Standards | | | EN 50178, IEC 61800-3, EN 61800-3 incl. A11 |
| Environmental conditions | | | |
| Altitude | | m | Up to 2000 m a.s.l.; observe derating at higher altitudes |
| Degree of Protection | | | IP20 |

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 | 75 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 35 |
| 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 | 50 |
| Degree of Protection | | | IP20 |
| 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. |

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| 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

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| 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 |

Approvals

| | | | |
|-----------------------------|--|--|--|
| Product Standards | | | UL 1283 |
| UL File No. | | | E192040 |
| North America Certification | | | UL listed, certified by UL for use in Canada |

Additional product information (links)

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|---|---|--|--|
| IL04012018Z*.pdf Radio interference suppression filter for PowerXL | | | |
| IL04012018Z*.pdf Radio interference suppression filter for PowerXL | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012018Z2018_05.pdf | | |