



Radio interference suppression filter, three-phase, U<sub>LN</sub>= max. 520 + 10% V, 180 A, For use with: DA1

Part no. **DX-EMC34-180**  
 Catalog No. **172287**  
 Alternate Catalog No. **DX-EMC34-180**  
 EL-Nummer (Norway) **0004110048**

## Delivery program

|                           |                 |    |                         |
|---------------------------|-----------------|----|-------------------------|
| Description               |                 |    | three-phase             |
| Mains voltage (50/60Hz)   | U <sub>LN</sub> | V  | max. 520 + 10%          |
| Rated operational current | I <sub>e</sub>  | A  | 180                     |
| For use with              |                 |    | DA1                     |
| Degree of Protection      |                 |    | IP20                    |
| Connection type           |                 |    | Screw terminal, PE stud |
| Weight                    | m               | kg | 9,2                     |
| 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

|  |                   |    |  |
|--|-------------------|----|--|
| Technical data for design verification   |                   |    |  |
| Rated operational current for specified heat dissipation   | I <sub>n</sub>    | A  | 180  |
| Heat dissipation per pole, current-dependent   | P <sub>vid</sub>  | W  | 0  |
| Equipment heat dissipation, current-dependent  | P <sub>vid</sub>  | W  | 150  |
| Static heat dissipation, non-current-dependent   | P <sub>vs</sub>   | W  | 0  |
| Heat dissipation capacity  | P <sub>diss</sub> | 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.                             |

|  |  |  |  |
|--|--|--|--|
| 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.                         |

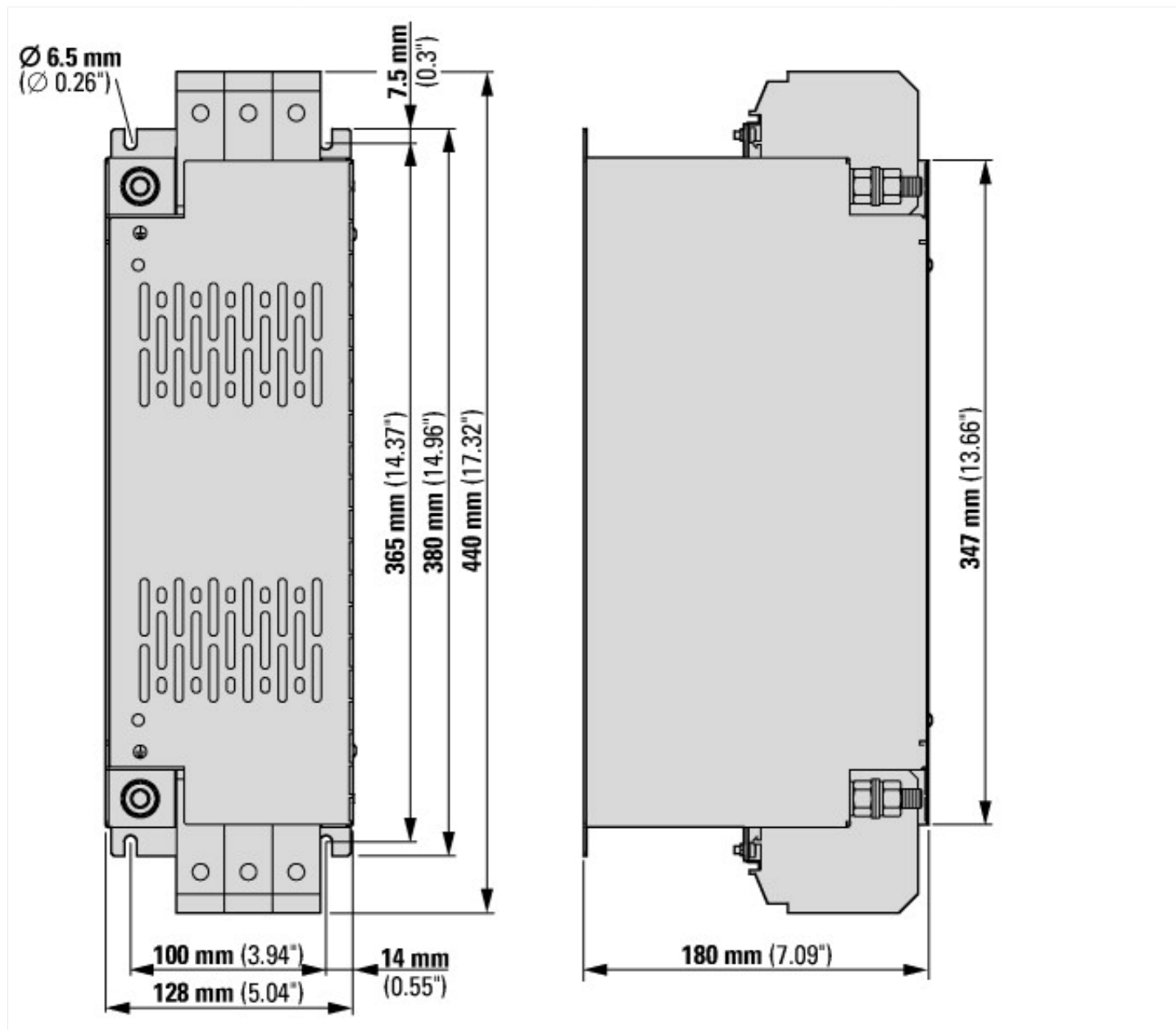
## Technical data ETIM 7.0

|   |  |  |        |
|---|--|--|--------|
| 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 |

## Approvals

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

## Dimensions



## Assets (links)

### Instruction Leaflets

IL04012018Z2018\_05

### Manuals

MN040002\_EN (English)

MN04020005Z\_EN (English)

## Additional product information (links)

### 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](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012018Z2018_05.pdf)

### MN04020005Z DA1 variable frequency drives, Installation manual

MN04020005Z Frequenzumrichter DA1, Installationshandbuch - Deutsch [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020005Z\\_DE.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf)

MN04020005Z DA1 variable frequency drives, Installation manual - English [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020005Z\\_EN.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf)

MN04020005Z Convertitore di frequenza DA1, manuale Installazione - italiano [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020005Z\\_IT.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_IT.pdf)

### MN040002 PowerXL DG1 Series VFD, Installation Manual

MN040002 PowerXL DG1 Serie VFD, Installationshandbuch - Deutsch [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN040002\\_DE.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf)

MN040002 PowerXL DG1 Series VFD, Installation Manual - English [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN040002\\_EN.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf)

|   |   |
|---|---|
| MN040002 EFV PowerXL série DG1, Manuel d'installation - français                                | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_FR.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_FR.pdf</a>   |
| MN040002 Serie VFD PowerXL DG1, Manuale di installazione - italiano                             | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_IT.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_IT.pdf</a>   |
| MN040002 Napęd VFD PowerXL serii DG1, Podręcznik instalacji - polski                            | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_PL.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_PL.pdf</a>   |
| CA04020001Z-EN Product Range Catalog: Efficient Engineering for Starting and Controlling Motors | <a href="http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238.pdf">http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238.pdf</a> |