



**Part no.**  
**Article no.**  
**Catalog No.**

**DX-EMC34-250-L**  
**174614**  
**DX-EMC34-250-L**

## Delivery program

|                           |          |    |                                    |
|---------------------------|----------|----|------------------------------------|
| Description               |          |    | three-phase<br>low leakage current |
| Mains voltage (50/60Hz)   | $U_{LN}$ | V  | max. 520 + 10%                     |
| Rated operational current | $I_e$    | A  | 250                                |
| For use with              |          |    | DA1                                |
| Degree of Protection      |          |    | IP20                               |
| Connection type           |          |    | Screw terminal, PE stud            |
| Weight                    | m        | kg | 12,2                               |
| <b>Notes</b>              |          |    | 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

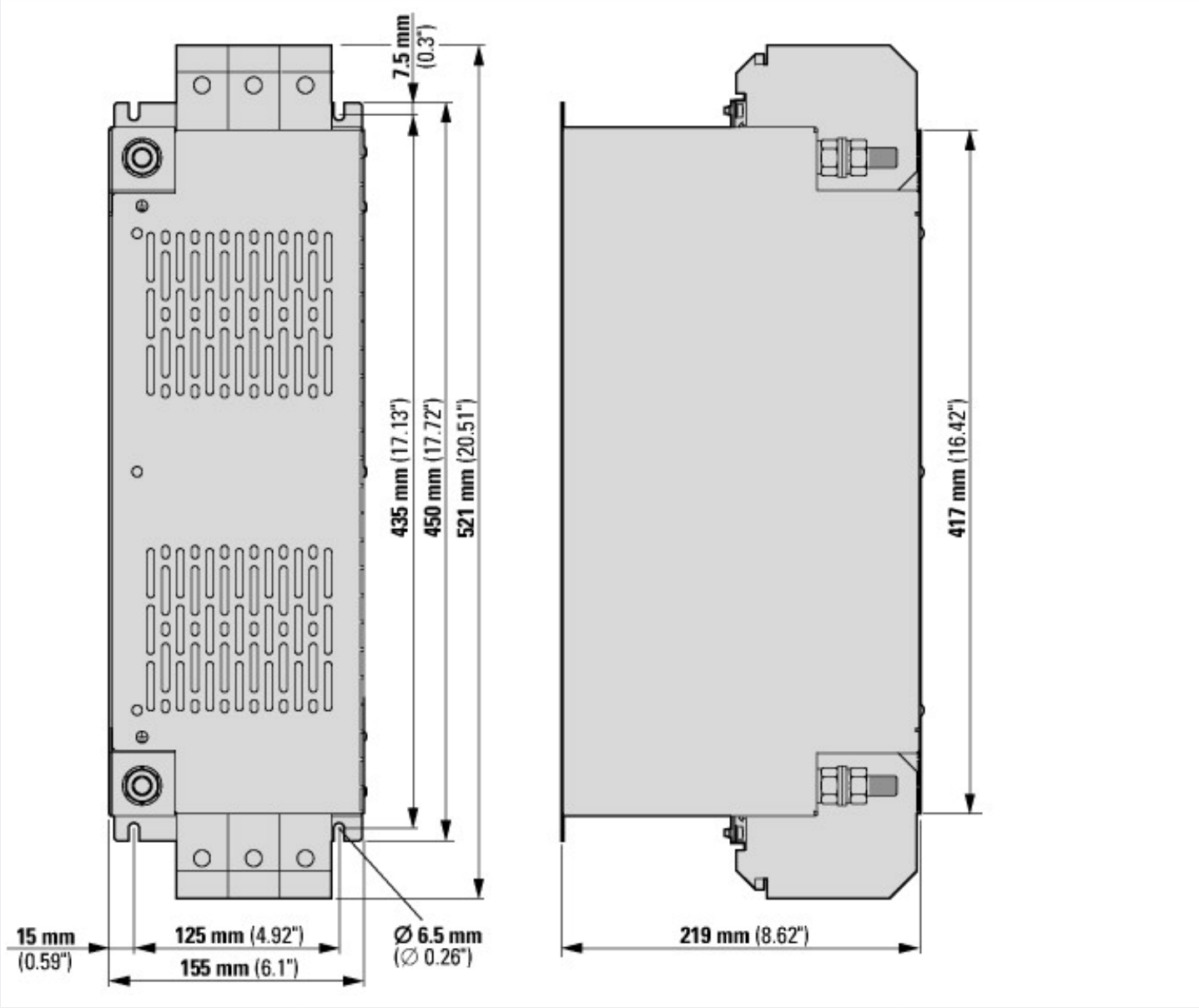
|                                                                                                                        |           |    |                                                                    |
|------------------------------------------------------------------------------------------------------------------------|-----------|----|--------------------------------------------------------------------|
| Technical data for design verification                                                                                 |           |    |                                                                    |
| Rated operational current for specified heat dissipation                                                               | $I_n$     | A  | 250                                                                |
| Equipment heat dissipation, current-dependent                                                                          | $P_{vid}$ | W  | 180                                                                |
| Static heat dissipation, non-current-dependent                                                                         | $P_{vs}$  | 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.                         |

### Approvals

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

### Dimensions



### Additional product information (links)

|                                                                           |                                                                                                                                                                       |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IL04012018Z*.pdf</b> Radio interference suppression filter for PowerXL |                                                                                                                                                                       |
| IL04012018Z*.pdf Radio interference suppression filter for PowerXL        | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012018Z2016_06.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012018Z2016_06.pdf</a> |
| <b>MN04020005Z DA1</b> variable frequency drives, Installation manual     |                                                                                                                                                                       |
| MN04020005Z DA1 variable frequency drives, Installation manual - Deutsch  | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf</a>                   |

|                                                                                                          |                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MN04020005Z DA1 variable frequency drives,<br>Installation manual - English                              | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf</a>                                                                         |
| <b>MN040002 PowerXL DG1 Series VFD, Installation Manual</b>                                              |                                                                                                                                                                                                                             |
| MN040002 PowerXL DG1 Series VFD,<br>Installation Manual - Deutsch                                        | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf</a>                                                                               |
| MN040002 PowerXL DG1 Series VFD,<br>Installation Manual - English                                        | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf</a>                                                                               |
| MN040002 PowerXL DG1 Series VFD,<br>Installation Manual - 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 PowerXL DG1 Series VFD,<br>Installation Manual - 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 PowerXL DG1 Series VFD,<br>Installation Manual - 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-DE Sortimentskatalog:<br>Antriebstechnik effizient gestalten, Motoren<br>starten und steuern | <a href="http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238_de.pdf">http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238_de.pdf</a> |