



**EMS three-phase current connector, 2 devices**

**Part no.** EMS-XBR-2  
**Catalog No.** 171268  
**Alternate Catalog No.** EMS-XBR-2  
**EL-Number (Norway)** 4110018

**Delivery program**

|                         |  |                 |  |
|-------------------------|--|-----------------|--|
| Product range           |  |                 | Electronic motor starter                                     |
| Basic function          |  |                 | Accessories  |
| Pole                    |  |                 | 3  |
| Devices                 |  | Number          | 2  |
| For use with            |  |                 | EMS-D...<br>EMS-D...-SWD-...<br>EMS-R...<br>EMS-R...-SWD-... |
| Conductor cross-section |  | mm <sup>2</sup> | 1.5  |

**Technical data**

**General**

|                     |  |  |           |
|---------------------|--|--|-----------|
| Ambient temperature |  |  | -25 - +60 |
|---------------------|--|--|-----------|

**Design verification as per IEC/EN 61439**

|  |                   |    |  |
|--|-------------------|----|--|
| Technical data for design verification   |                   |    |  |
| Rated operational current for specified heat dissipation   | I <sub>n</sub>    | A  | 12   |
| Heat dissipation per pole, current-dependent   | P <sub>vid</sub>  | W  | 3.6  |
| Equipment heat dissipation, current-dependent  | P <sub>vid</sub>  | W  | 10.8   |
| 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 | 60   |
| 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 electronic motor control and protection device (EC002615)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Electronic motor control and motor protection device / Electronic motor control and motor protection unit (accessories) (ecl@ss10.0.1-27-37-08-92 [AC0035011])

Type of accessory

Connecting cable

## Additional product information (links)

### IL03407198Z Electronic motor starter EMS

IL03407198Z Electronic motor starter EMS [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03407198Z2018\\_04.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407198Z2018_04.pdf)

### IL120002ZU Electronic motor starter with SWD connection

IL120002ZU Electronic motor starter with SWD connection [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL120002ZU2018\\_04.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL120002ZU2018_04.pdf)