



**Three-phase busbar link, Circuit-breaker: 4, 207 mm, For PKZM0-... or PKE12, PKE32 without side mounted auxiliary contacts or voltage releases**

**Part no.** B3.1/4-PKZO  
**Catalog No.** 044947  
**Alternate Catalog No.** XTPAXCLKB4  
**EL-Nummer (Norway)** 4357231

## Delivery program

|                                                                                           |        |                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range                                                                             |        | Accessories                                                                                                                                                                                                                                            |
| Accessories                                                                               |        | Three-phase busbar link                                                                                                                                                                                                                                |
|                                                                                           |        | Protected against accidental contact, short-circuit proof, $U_e = 690\text{ V}$ , $I_u = 63\text{ A}$<br>Can be extended by rotating by installation<br>For PKZM0-... or PKE attached on the right with an auxiliary contact or trip indicating signal |
| For use with                                                                              |        | Three-phase commoning link PKZO, PKE12, PKE32                                                                                                                                                                                                          |
| Circuit-breaker                                                                           | Number | 4                                                                                                                                                                                                                                                      |
| Length                                                                                    | mm     | 207                                                                                                                                                                                                                                                    |
| Unit width                                                                                | mm     | 45 + 9                                                                                                                                                                                                                                                 |
| <b>Notes</b>                                                                              |        |                                                                                                                                                                                                                                                        |
| For parallel power feed to several motor-protective circuit-breakers on terminals 1, 3, 5 |        |                                                                                                                                                                                                                                                        |

## Technical data

### Main conducting paths

|                                       |           |      |       |
|---------------------------------------|-----------|------|-------|
| Rated impulse withstand voltage       | $U_{imp}$ | V AC | 6000  |
| Overvoltage category/pollution degree |           |      | III/3 |
| Rated operational voltage             | $U_e$     | V AC | 690   |
| Rated uninterrupted current           | $I_u$     | A    | 63    |

## Design verification as per IEC/EN 61439

|                                                                                                                        |            |    |                                                                    |
|------------------------------------------------------------------------------------------------------------------------|------------|----|--------------------------------------------------------------------|
| Technical data for design verification                                                                                 |            |    |                                                                    |
| Rated operational current for specified heat dissipation                                                               | $I_n$      | A  | 63                                                                 |
| Heat dissipation per pole, current-dependent                                                                           | $P_{vid}$  | W  | 2.3                                                                |
| Equipment heat dissipation, current-dependent                                                                          | $P_{vid}$  | W  | 6.9                                                                |
| 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 | 55                                                                 |
| 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.                         |

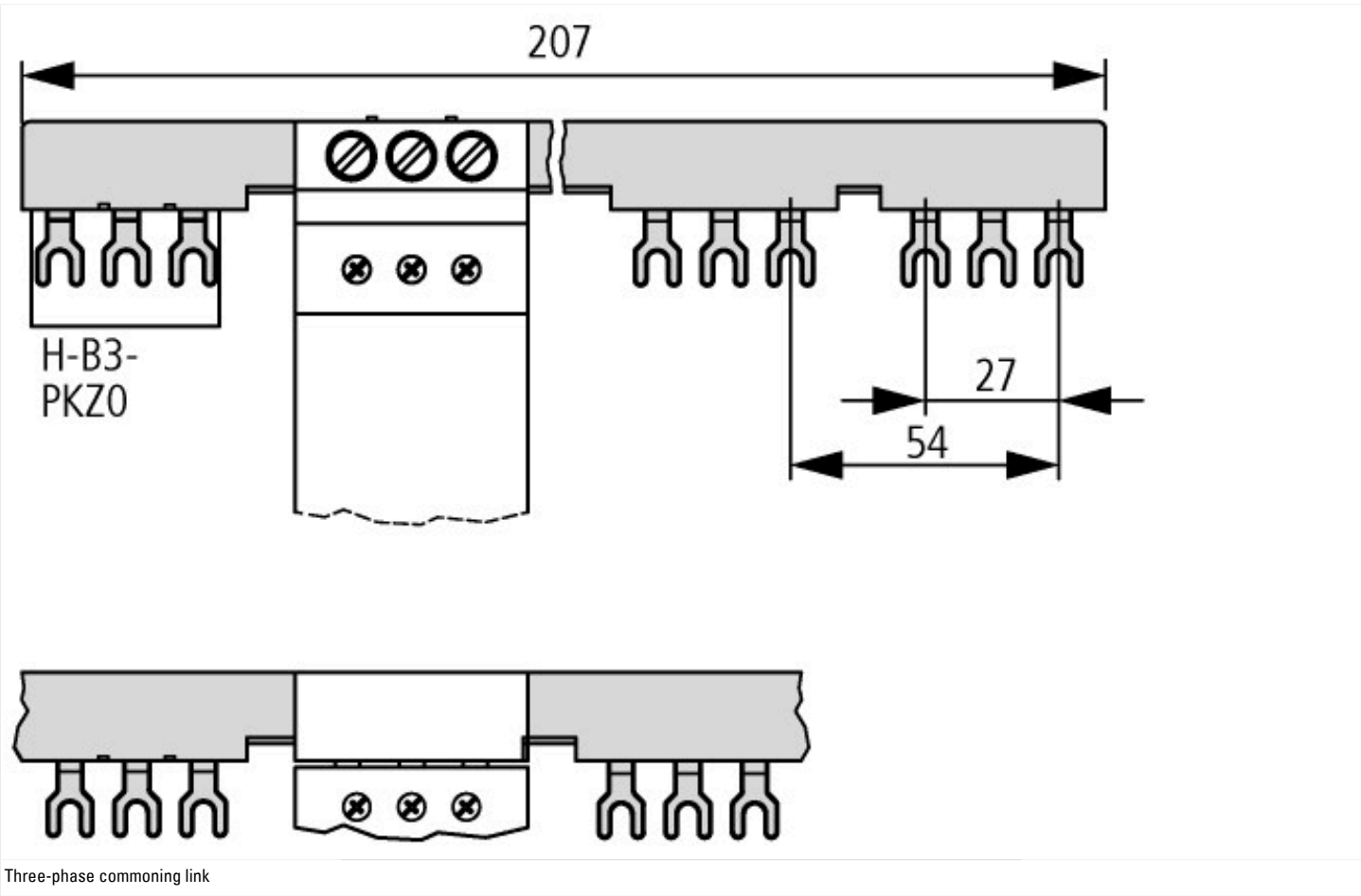
## Technical data ETIM 7.0

|                                                                                                                                                                                                      |  |                 |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|------|
| Low-voltage industrial components (EG000017) / Phase busbar (EC000215)                                                                                                                               |  |                 |      |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Phase busbar (ecl@ss10.0.1-27-37-13-06 [ACN992011]) |  |                 |      |
| Number of phases                                                                                                                                                                                     |  |                 | 3    |
| Number of poles                                                                                                                                                                                      |  |                 | 3    |
| Suitable for number of devices                                                                                                                                                                       |  |                 | 4    |
| Pitch dimensions                                                                                                                                                                                     |  | mm              | 54   |
| Cross section                                                                                                                                                                                        |  | mm <sup>2</sup> | 0    |
| Length                                                                                                                                                                                               |  | mm              | 207  |
| Number of modular spacings                                                                                                                                                                           |  |                 | 0    |
| Rated permanent current I <sub>u</sub>                                                                                                                                                               |  | A               | 63   |
| Type of electric connection                                                                                                                                                                          |  |                 | Fork |
| Insulated                                                                                                                                                                                            |  |                 | Yes  |
| Rated surge voltage                                                                                                                                                                                  |  | kV              | 6    |
| Conditioned rated short-circuit current I <sub>q</sub>                                                                                                                                               |  | kA              | 0    |
| Max. rated operation voltage U <sub>e</sub>                                                                                                                                                          |  | V               | 690  |
| Rated short-time withstand current I <sub>cw</sub>                                                                                                                                                   |  | kA              | 0    |
| Suitable for devices with N-busbar                                                                                                                                                                   |  |                 | No   |
| Suitable for devices with auxiliary switch                                                                                                                                                           |  |                 | No   |

## Approvals

|                                      |  |  |                                                    |
|--------------------------------------|--|--|----------------------------------------------------|
| Product Standards                    |  |  | UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking |
| UL File No.                          |  |  | E36332                                             |
| UL Category Control No.              |  |  | NLRV                                               |
| CSA File No.                         |  |  | 98494                                              |
| CSA Class No.                        |  |  | 3211-06                                            |
| North America Certification          |  |  | UL listed, CSA certified                           |
| Specially designed for North America |  |  | No                                                 |

Dimensions



Additional product information (links)

|                                                                            |                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor starters and "Special Purpose Ratings" for the North American market | <a href="http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf">http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf</a> |
| Busbar Component Adapters for modern Industrial control panels             | <a href="http://www.moeller.net/binary/ver_techpapers/ver960en.pdf">http://www.moeller.net/binary/ver_techpapers/ver960en.pdf</a>                                                                               |