

# Three-phase commoning link for 4 DILM7-12

**Part no.** DILM12-XDSB0/4
**Article no.** 240085
**Catalog No.** XTCEXCLK4B

Powering Business Worldwide

## Delivery programme

| | | | |
|---|---|---|---|
| Product range | | | Accessories |
| Accessories | | | Three-phase commoning links |
| Description | | | protected against accidental contact, short-circuit proof, $U_e$ = 690 V, $I_u$ = 35 A<br>can be extended by rotating installation (∑ Iu ≦ 35 A) |
| **For use with** | | | |
| For use with | | | DILM7<br>DILM9<br>DILM12<br>DILM15<br>DS7-34…SX004…<br>DS7-34…SX007…<br>DS7-34…SX009…<br>DS7-34…SX012… |

**Notes**

Suitable for 4 contactors, length 157 mm

**Notes**

For the primary side of DS7

Suitable for 4 DS7 soft starters

Length 157 mm

## Design verification as per IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | $I_n$ | A | 35 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0.6 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 1.8 |
| 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 | 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 6.0

Low-voltage industrial components (EG000017) / Phase busbar (EC000215)

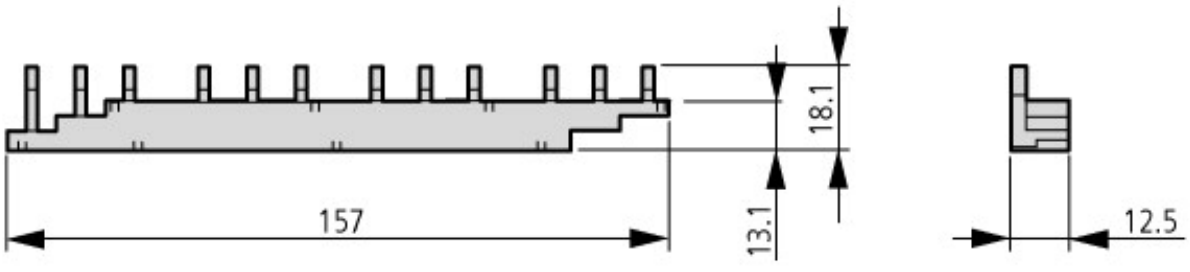
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Phase busbar (ecl@ss8.1-27-37-13-06 [ACN992008])

| | | |
|---|---|---|
| Number of phases | | 3 |
| Number of poles | | 3 |
| Suitable for number of devices | | 4 |
| Pitch dimensions | mm | 45 |
| Cross section | $mm^2$ | 0 |
| Length | mm | 180 |
| Number of modular spacings | | 0 |
| Rated permanent current Iu | A | 35 |
| Type of electric connection | | Pin |
| Insulated | | Yes |
| Rated surge voltage | kV | 0 |
| Conditioned rated short-circuit current Iq | kA | 0 |
| Max. rated operation voltage Ue | V | 690 |
| Rated short-time withstand current Icw | kA | 0 |
| Suitable for devices with N-busbar | | No |
| Suitable for devices with auxiliary switch | | No |

## Approvals

| | | |
|---|---|---|
| Product Standards | | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | | E36332 |
| UL Category Control No. | | NLRV |
| CSA File No. | | 012528 |
| CSA Class No. | | 2411-03 |
| North America Certification | | UL listed, CSA certified |
| Specially designed for North America | | No |

## Dimensions




DILM12-XDSB...

## Additional product information (links)

| | |
|---|---|
| Switchgear of Power Factor Correction Systems | http://www.moeller.net/binary/ver_techpapers/ver934en.pdf |
| X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely | http://www.moeller.net/binary/ver_techpapers/ver938en.pdf |
| Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions | http://www.moeller.net/binary/ver_techpapers/ver944en.pdf |
| Effect of the Cabel Capacitance of Long Control Cables on the Actuation of Contactors | http://www.moeller.net/binary/ver_techpapers/ver949en.pdf |
| Motor starters and "Special Purpose Ratings" for the North American market | http://www.moeller.net/binary/ver_techpapers/ver953en.pdf |
| Switchgear for Luminaires | http://www.moeller.net/binary/ver_techpapers/ver955en.pdf |

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|---|---|
| Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts | http://www.moeller.net/binary/ver_techpapers/ver956en.pdf |
| The Interaction of Contactors with PLCs | http://www.moeller.net/binary/ver_techpapers/ver957en.pdf |
| Busbar Component Adapters for modern Industrial control panels | http://www.moeller.net/binary/ver_techpapers/ver960en.pdf |


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