



## Paralleling link, for DILM7-12/MP20

**Part no.** DILM12-XP1  
**Catalog No.** 281193  
**Eaton Catalog No.** XTCEXPLKB  
**EL-Nummer (Norway)** 4110350

### Delivery program

|   |  |  |  |
|---|--|--|--|
| Contact sequence  |  |  |  |
| Product range   |  |  | Accessories  |
| Accessories   |  |  | Wiring accessories   |
| For use with  |  |  | DILM7 - DILM15<br>DILMP20  |
| For use with  |  |  | Paralleling links for DILM7 to DILM15<br>Paralleling links for DILMP20 |
| <b>Instructions</b> AC1 current carrying capacity of the open contactor increases by a factor of 2.5<br>Protected against accidental contact in accordance to VDE 0106 part 100<br>4th pole can be broken off |  |  |  |

### Technical data

#### Parallel link

|                              |                                     |                 |                                  |
|------------------------------|-------------------------------------|-----------------|----------------------------------|
| Terminal capacities          |                                     | mm <sup>2</sup> |                                  |
| Solid                        |                                     | mm <sup>2</sup> | 1 - 16                           |
| Flexible with ferrule        |                                     | mm <sup>2</sup> | 1 x (0.5 - 25)<br>2 x (0.5 - 16) |
| Stranded                     |                                     | mm <sup>2</sup> | 1 x (0.5 - 25)<br>2 x (0.5 - 16) |
| Flat conductor               | Lamellenzahl<br>x Breite x<br>Dicke | mm              | 6 x 9 x 0.8                      |
| Tightening torque            |                                     | Nm              | 4                                |
| Tool                         |                                     |                 |                                  |
| Pozidriv screwdriver         |                                     | Size            | 2                                |
| Conventional thermal current | $I_{th} = I_e$                      | A               |                                  |
| 3 pole                       | $I_{th}$                            | A               | 50                               |

### Design verification as per IEC/EN 61439

|  |            |    |  |
|--|------------|----|--|
| Technical data for design verification   |            |    |  |
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 50   |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 0.2  |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W  | 0.2  |
| Static heat dissipation, non-current-dependent   | $P_{vs}$   | W  | 0  |
| Heat dissipation capacity  | $P_{diss}$ | W  | 0  |
| Operating ambient temperature max.   |            | °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  |            |    |  |
| 10.2.2.1 Verification of thermal stability of enclosures   |            |    | Meets the product standard's requirements. |
| 10.2.2.2 Verification of resistance of insulating materials to normal heat   |            |    | Meets the product standard's requirements. |
| 10.2.2.3 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) / Accessories for low-voltage switch technology (EC002498)   |  |                   |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Low-voltage switch technology (accessories) / Component for low-voltage switch technology (accessories) (ecI@ss8.1-27-37-92-01 [AKN570010]) |  |                   |
| Type of accessory   |  | Connecting bridge |

## Approvals

|                                      |  |   |
|--------------------------------------|--|---|
| Product Standards                    |  | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No.                          |  | E29096  |
| UL Category Control No.              |  | NLDX  |
| CSA File No.                         |  | 012528  |
| CSA Class No.                        |  | 3211-03   |
| North America Certification          |  | UL listed, CSA certified                                  |
| Specially designed for North America |  | No  |

## Additional product information (links)

|  |   |
|--|---|
| Switchgear of Power Factor Correction Systems  | <a href="http://www.moeller.net/binary/ver_techpapers/ver934en.pdf">http://www.moeller.net/binary/ver_techpapers/ver934en.pdf</a> |
| X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely                 | <a href="http://www.moeller.net/binary/ver_techpapers/ver938en.pdf">http://www.moeller.net/binary/ver_techpapers/ver938en.pdf</a> |
| Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions   | <a href="http://www.moeller.net/binary/ver_techpapers/ver944en.pdf">http://www.moeller.net/binary/ver_techpapers/ver944en.pdf</a> |
| Effect of the Cable Capacitance of Long Control Cables on the Actuation of Contactors          | <a href="http://www.moeller.net/binary/ver_techpapers/ver949en.pdf">http://www.moeller.net/binary/ver_techpapers/ver949en.pdf</a> |
| Motor starters and "Special Purpose Ratings" for the North American market                     | <a href="http://www.moeller.net/binary/ver_techpapers/ver953en.pdf">http://www.moeller.net/binary/ver_techpapers/ver953en.pdf</a> |
| Switchgear for Luminaires  | <a href="http://www.moeller.net/binary/ver_techpapers/ver955en.pdf">http://www.moeller.net/binary/ver_techpapers/ver955en.pdf</a> |
| Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts | <a href="http://www.moeller.net/binary/ver_techpapers/ver956en.pdf">http://www.moeller.net/binary/ver_techpapers/ver956en.pdf</a> |
| The Interaction of Contactors with PLCs  | <a href="http://www.moeller.net/binary/ver_techpapers/ver957en.pdf">http://www.moeller.net/binary/ver_techpapers/ver957en.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> |