

# Specifications

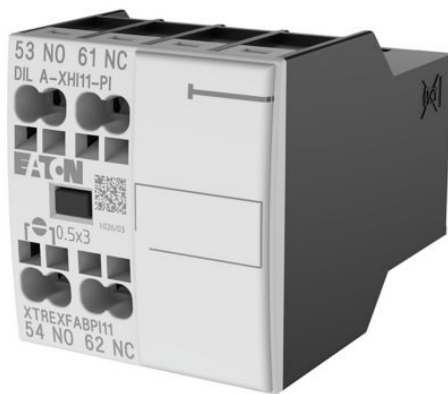


Photo is representative



## Eaton 199314

Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Push in terminals, DILA, DILM7 - DILM38

### General specifications

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| <b>PRODUCT NAME</b> | Eaton Moeller® series<br>DILA Accessory Auxiliary<br>contact module |
|---------------------|---------------------------------------------------------------------|

|                       |        |
|-----------------------|--------|
| <b>CATALOG NUMBER</b> | 199314 |
|-----------------------|--------|

|                   |               |
|-------------------|---------------|
| <b>MODEL CODE</b> | DILA-XHI11-PI |
|-------------------|---------------|

|            |               |
|------------|---------------|
| <b>EAN</b> | 4015081973989 |
|------------|---------------|

|                                 |       |
|---------------------------------|-------|
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 54 mm |
|---------------------------------|-------|

|                       |       |
|-----------------------|-------|
| <b>PRODUCT HEIGHT</b> | 38 mm |
|-----------------------|-------|

|                      |       |
|----------------------|-------|
| <b>PRODUCT WIDTH</b> | 36 mm |
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|                       |          |
|-----------------------|----------|
| <b>PRODUCT WEIGHT</b> | 0.039 kg |
|-----------------------|----------|

|                       |                                                                                                                                                                                                  |
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| <b>CERTIFICATIONS</b> | IEC/EN 60947<br>VDE 0660<br>CSA File No.: 012528<br>CSA Class No.: 3211-03<br>UL File No.: E29184<br>UL 508<br>CSA-C22.2 No. 14-05<br>CE marking<br>UL<br>CSA<br>UL Category Control No.:<br>NKR |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CATALOG NOTES</b> | Rated operational current:<br>Switch-on and switch-off<br>conditions based on DC-<br>13, time constant as<br>specified. Auxiliary<br>contacts used as mirror<br>contacts according to<br>IEC/EN 60947-4-1<br>Appendix F (not N/C late<br>open) |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Climatic environmental conditions

**AMBIENT OPERATING TEMPERATURE - MAX** 60 °C

**AMBIENT STORAGE TEMPERATURE - MAX** 80 °C

**AMBIENT OPERATING TEMPERATURE - MIN** -25 °C

**AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX** 40 °C

**AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN** -25 °C

**AMBIENT STORAGE TEMPERATURE - MIN** -40 °C

**CLIMATIC PROOFING** Damp heat, cyclic, to IEC 60068-2-30  
Damp heat, constant, to IEC 60068-2-78

## Contacts

**CONTROL CIRCUIT RELIABILITY**  $\lambda < 5 \times 1/10^7$  (1 failure at 2,000,000 operations for  $U_e = 24$  V DC,  $U_{min} = 17$  V,  $I_{min} = 5.4$  mA)

**NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)** 0

**NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)** 1

**NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)** 1

## Communication

**CONNECTION TYPE** Push in terminals

## Electrical rating

**CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)** 16 A

**CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)** 0.16 A

**RATED INSULATION VOLTAGE (UI)** 690 V

**RATED OPERATIONAL CURRENT (IE)**

0.25 A at 220 V, DC L/R  $\leq$  50 ms (with 3 contacts in series)  
3 A at 110 V, DC L/R  $\leq$  15 ms (with 1 contact in series)  
0.5 A at 110 V, DC L/R  $\leq$  50 ms (with 3 contacts in series)  
5 A at 220 V, DC L/R  $\leq$  15 ms (with 3 contacts in series)  
2.5 A at 24 V, DC L/R  $\leq$  50 ms (with 3 contacts in series)  
10 A at 24 V, DC L/R  $\leq$  15 ms (with 1 contact in series)  
1 A at 60 V, DC L/R  $\leq$  50 ms (with 3 contacts in series)  
6 A at 110 V, DC L/R  $\leq$  15 ms (with 3 contacts in series)

|                                                                     |                                                                                                                                                                                              |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     | 1 A at 220 V, DC L/R $\leq$ 15 ms (with 1 contact in series)<br>10 A at 60 V, DC L/R $\leq$ 15 ms (with 2 contacts in series)<br>6 A at 60 V, DC L/R $\leq$ 15 ms (with 1 contact in series) |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b> | 4 A                                                                                                                                                                                          |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b> | 4 A                                                                                                                                                                                          |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V</b>               | 1.5 A                                                                                                                                                                                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>               | 0.5 A                                                                                                                                                                                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>        | 0.25 A                                                                                                                                                                                       |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>                | 2.5 A                                                                                                                                                                                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V</b>                | 1 A                                                                                                                                                                                          |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>                   | 500 V                                                                                                                                                                                        |
| <b>SAFE ISOLATION</b>                                               | 400 V AC, Between auxiliary contacts, According to EN 61140<br>400 V AC, Between coil and auxiliary contacts, According to EN 61140                                                          |
| <b>SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING</b>              | 10 A gG/gL, 500 V, Max. Fuse, Contacts                                                                                                                                                       |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>         | 10 A, 600 V AC, (UL/CSA)<br>1 A, 250 V DC, (UL/CSA)                                                                                                                                          |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>          | A600, AC operated (UL/CSA)<br>P300, DC operated (UL/CSA)                                                                                                                                     |

## Features & functions

|                                 |                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>ELECTRIC CONNECTION TYPE</b> | Spring clamp connection                                                                               |
| <b>FEATURES</b>                 | Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L) |
| <b>FITTED WITH:</b>             | Interlocked opposing contacts                                                                         |
| <b>FUNCTIONS</b>                | For standard applications                                                                             |
| <b>NUMBER OF POLES</b>          | Two-pole                                                                                              |

## General information

|                                               |                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEGREE OF PROTECTION</b>                   | IP20                                                                                                                                                                                                                                                                                           |
| <b>LIFESPAN, ELECTRICAL</b>                   | 1,300,000 Operations (at 230 V, AC-15, 3 A)                                                                                                                                                                                                                                                    |
| <b>LIFESPAN, MECHANICAL</b>                   | 10,000,000 Operations (DC operated)<br>10,000,000 Operations (AC operated)                                                                                                                                                                                                                     |
| <b>MODEL</b>                                  | Top mounting                                                                                                                                                                                                                                                                                   |
| <b>MOUNTING METHOD</b>                        | Front fastening                                                                                                                                                                                                                                                                                |
| <b>OPERATING FREQUENCY</b>                    | 9000 Operations/h                                                                                                                                                                                                                                                                              |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                                                                                                                                                                                                            |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                                                                                                                                                                                                              |
| <b>PROTECTION</b>                             | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)                                                                                                                                                                                           |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                                                                                                                                                                                                                                      |
| <b>SHOCK RESISTANCE</b>                       | 5 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>7 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |
| <b>TYPE</b>                                   | Front mounting auxiliary contact                                                                                                                                                                                                                                                               |

## Terminal capacities

|                                                  |                                                                    |
|--------------------------------------------------|--------------------------------------------------------------------|
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b> | 1 x (0.5 - 1.5) mm <sup>2</sup><br>2 x (0.5 - 1.5) mm <sup>2</sup> |
| <b>TERMINAL CAPACITY (FLEXIBLE)</b>              | 1 x (0.5 - 2.5) mm <sup>2</sup><br>2 x (0.5 - 2.5) mm <sup>2</sup> |
| <b>TERMINAL CAPACITY (SOLID)</b>                 | 1 x (0.5 - 2.5) mm <sup>2</sup><br>2 x (0.5 - 2.5) mm <sup>2</sup> |
| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>    | 20 - 14                                                            |

## Resources

|                            |                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                               |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-accessory-declaration-of-conformity-eu250793en.pdf</a><br><a href="#">eaton-accessory-declaration-of-conformity-uk251276en.pdf</a> |
| DRAWINGS                   | <a href="#">eaton-contactors-dimensions-007.eps</a>                                                                                                  |
| ECAD MODEL                 | <a href="#">ETN.199314.edz</a>                                                                                                                       |

|                           |                                                                               |
|---------------------------|-------------------------------------------------------------------------------|
| INSTALLATION INSTRUCTIONS | <a href="#">eaton-contactors-dila-dilm7-15-dilmp20-il03407013z.pdf</a>        |
|                           | <a href="#">eaton-contactors-dila-dilm7-15-dilmp20-push-in-il034108zu.pdf</a> |
| INSTALLATION VIDEOS       | <a href="#">WIN-WIN with push-in technology</a>                               |
| MCAD MODEL                | <a href="#">eaton-contact-blocks-mcad-3d-models-dil-a-xhi-4-pi.stp</a>        |
|                           | <a href="#">eaton-contact-blocks-mcad-drawings-dil-a-xhi-4-pi.dwg</a>         |
| WIRING DIAGRAMS           | <a href="#">eaton-contactors-wiring-diagram-2100swi-113.eps</a>               |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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