

**Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 3 NC, Front fixing,  
Screw terminals, DILA, DILM7 - DILM38**

**Part no. DILA-XHI13**

**276425**

**EL Number**

**4130216**

**(Norway)**

| <b>General specifications</b>          |  |
|--|--|
| Product name                           | Eaton Moeller® series DILA Accessory Auxiliary contact module  |
| Part no.                               | DILA-XHI13   |
| EAN                                    | 4015082764258  |
| Product Length/Depth                   | 45 millimetre  |
| Product height                         | 38 millimetre  |
| Product width                          | 36 millimetre  |
| Product weight                         | 0.048 kilogram   |
| Certifications                         | UL 508<br>CSA File No.: 012528<br>UL<br>UL File No.: E29184<br>CSA Class No.: 3211-03<br>CSA<br>UL Category Control No.: NKCR<br>CE<br>VDE 0660<br>IEC/EN 60947-4-1<br>CSA-C22.2 No. 14-05<br>IEC/EN 60947   |
| Product Tradename                      | DILA   |
| Product Type                           | Accessory  |
| Product Sub Type                       | Auxiliary contact module   |
| Catalog Notes                          | Auxiliary contacts used as mirror contacts (according to IEC/EN 60947-4-1 Appendix F (not N/C late open))<br>Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside the auxiliary contact modules, also for the integrated auxiliary contacts of the DILM 7 - DILM32<br>Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified.<br>Version E combinations correspond to EN 50011 and are to be preferred. |
| <b>Features &amp; Functions</b>        |  |
| Features                               | Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L)  |
| Functions                              | For standard applications  |
| Fitted with:                           | Switching elements according to EN 50005<br>Interlocked opposing contacts  |
| Number of poles                        | Four-pole  |
| Electric connection type               | Screw connection   |
| <b>General information</b>             |  |
| Degree of protection                   | IP20   |
| Shock resistance                       | 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<br>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   |
| Lifespan, electrical                   | 1,300,000 Operations (at 230 V, AC-15, 3 A)  |
| Lifespan, mechanical                   | 10,000,000 Operations (DC operated)<br>10,000,000 Operations (AC operated)   |
| Model                                  | Top mounting   |
| Mounting method                        | Front fastening  |
| Operating frequency                    | 9000 Operations/h  |
| Overvoltage category                   | III  |
| Pollution degree                       | 3  |
| Protection                             | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)   |
| Rated impulse withstand voltage (Uimp) | 6000 V AC  |
| Type                                   | Front mounting auxiliary contact   |

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| <b>Climatic environmental conditions</b>                                  |  |  |
| Ambient operating temperature - min                                       |  | -25 °C   |
| Ambient operating temperature - max                                       |  | 60 °C  |
| Ambient operating temperature (enclosed) - min                            |  | 25 °C  |
| Ambient operating temperature (enclosed) - max                            |  | 40 °C  |
| Ambient storage temperature - min   |  | 40 °C  |
| Ambient storage temperature - max   |  | 80 °C  |
| Climatic proofing   |  | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30   |
| <b>Terminal capacities</b>  |  |  |
| Terminal capacity (flexible with ferrule)                                 |  | 2 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals<br>1 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals   |
| Terminal capacity (solid)   |  | 1 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals<br>2 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals   |
| Terminal capacity (solid/stranded AWG)                                    |  | 18 - 14  |
| Screw size  |  | M3.5, Terminal screw   |
| Screwdriver size  |  | 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver<br>2, Terminal screw, Pozidriv screwdriver  |
| Tightening torque   |  | 1.2 Nm, Screw terminals  |
| <b>Electrical rating</b>  |  |  |
| Conventional thermal current I <sub>th</sub> at 60°C (3-pole, open)       |  | 16 A   |
| Rated operational current (I <sub>e</sub> )                               |  | 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series)<br>10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series)<br>6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>0.5 A at 110 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>2.5 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) |
| Rated operational current (I <sub>e</sub> ) at AC-15, 220 V, 230 V, 240 V |  | 4 A  |
| Rated operational current (I <sub>e</sub> ) at AC-15, 380 V, 400 V, 415 V |  | 4 A  |
| Rated operational current (I <sub>e</sub> ) at AC-15, 500 V               |  | 1.5 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 24 V                |  | 2.5 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 60 V                |  | 1 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 110 V               |  | 0.5 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 220 V, 230 V        |  | 0.25 A   |
| Rated insulation voltage (U <sub>i</sub> )                                |  | 690 V  |
| Rated operational voltage (U <sub>e</sub> ) at AC - max                   |  | 500 V  |
| Short-circuit protection rating   |  | Max. 10 A gG/gL, Fuse, Without welding, Auxiliary contacts   |
| Short-circuit protection rating without welding                           |  | 10 A gG/gL, 500 V, Max. Fuse, Contacts   |
| Safe isolation  |  | 400 V AC, Between coil and auxiliary contacts, According to EN 61140<br>400 V AC, Between auxiliary contacts, According to EN 61140  |
| Switching capacity (auxiliary contacts, general use)                      |  | 10 A, 600 V AC, (UL/CSA)<br>1 A, 250 V DC, (UL/CSA)  |
| Switching capacity (auxiliary contacts, pilot duty)                       |  | P300, DC operated (UL/CSA)<br>A600, AC operated (UL/CSA)   |
| <b>Communication</b>  |  |  |
| Connection type   |  | Screw connection   |
| <b>Contacts</b>   |  |  |
| Code number   |  | 35 in combination with DILA(C)-22<br>53E in combination with DILA(C)-40<br>44 in combination with DILA(C)-31   |
| Control circuit reliability   |  | < 2 λ, < 1 failure at 100,000,000 Operations (at U# = 24 V DC, U <sub>min</sub> = 17 V, I <sub>min</sub> = 5.4 mA)   |
| Number of contacts (change-over contacts)                                 |  | 0  |
| Number of contacts (normally closed contacts)                             |  | 3  |
| Number of contacts (normally open contacts)                               |  | 1  |
| <b>Design verification</b>  |  |  |
| Equipment heat dissipation, current-dependent P <sub>vid</sub>            |  | 0 W  |

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| Heat dissipation capacity P <sub>diss</sub>                                      |  | 0 W  |
| Heat dissipation per pole, current-dependent P <sub>vid</sub>                    |  | 0.16 W   |
| Rated operational current for specified heat dissipation (I <sub>n</sub> )       |  | 4 A  |
| Static heat dissipation, non-current-dependent P <sub>vs</sub>                   |  | 0 W  |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.   |
| 10.9.2 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 8.0

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| Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)   |   |                  |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block<br>(ecl@ss10.0.1-27-37-13-02 [AKN342013]) |   |                  |
| Number of contacts as change-over contact   |   | 0                |
| Number of contacts as normally open contact   |   | 1                |
| Number of contacts as normally closed contact   |   | 3                |
| Number of fault-signal switches   |   | 0                |
| Rated operation current I <sub>e</sub> at AC-15, 230 V  | A | 4                |
| Type of electric connection   |   | Screw connection |
| Model   |   | Top mounting     |
| Mounting method   |   | Front fastening  |
| Lamp holder   |   | None             |