



Auxiliary contact module, 4 pole, Ith= 16 A, 4 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

Part no. DILA-XHI04  
276424  
EL Number 4130215  
(Norway)

|                                                |  |                                                                                                                                                                                                                                                                                                |
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| General specifications                         |  |                                                                                                                                                                                                                                                                                                |
| Product name                                   |  | Eaton Moeller® series DILA Accessory Auxiliary contact module                                                                                                                                                                                                                                  |
| Part no.                                       |  | DILA-XHI04                                                                                                                                                                                                                                                                                     |
| EAN                                            |  | 4015082764241                                                                                                                                                                                                                                                                                  |
| Product Length/Depth                           |  | 45 millimetre                                                                                                                                                                                                                                                                                  |
| Product height                                 |  | 38 millimetre                                                                                                                                                                                                                                                                                  |
| Product width                                  |  | 36 millimetre                                                                                                                                                                                                                                                                                  |
| Product weight                                 |  | 0.049 kilogram                                                                                                                                                                                                                                                                                 |
| Certifications                                 |  | CE<br>UL Category Control No.: NKCR<br>VDE 0660<br>CSA Class No.: 3211-03<br>UL 508<br>CSA<br>UL<br>IEC/EN 60947<br>CSA File No.: 012528<br>UL File No.: E29184<br>IEC/EN 60947-4-1<br>CSA-C22.2 No. 14-05                                                                                     |
| Product Tradename                              |  | DILA                                                                                                                                                                                                                                                                                           |
| Product Type                                   |  | Accessory                                                                                                                                                                                                                                                                                      |
| Product Sub Type                               |  | Auxiliary contact module                                                                                                                                                                                                                                                                       |
| Features & Functions                           |  |                                                                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                                               |
| General information                            |  |                                                                                                                                                                                                                                                                                                |
| Connection                                     |  | Screw terminals                                                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                               |
| Climatic environmental conditions              |  |                                                                                                                                                                                                                                                                                                |
| Ambient operating temperature - min            |  | -25 °C                                                                                                                                                                                                                                                                                         |
| Ambient operating temperature - max            |  | 60 °C                                                                                                                                                                                                                                                                                          |
| Ambient operating temperature (enclosed) - min |  | -25 °C                                                                                                                                                                                                                                                                                         |

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| 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)                                                  |  | 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/stranded AWG)                                     |  | 18 - 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Screw size                                                                 |  | M3.5, Terminal screw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Screwdriver size                                                           |  | 2, Terminal screw, Pozidriv screwdriver<br>0.8 x 5.5/1 x 6 mm, Terminal screw, Standard 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>6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series)<br>1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>6 A at 60 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>10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series)<br>2.5 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact 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 auxiliary contacts, According to EN 61140<br>400 V AC, Between coil and auxiliary contacts, According to EN 61140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Switching capacity (auxiliary contacts, general use)                       |  | 1 A, 250 V DC, (UL/CSA)<br>10 A, 600 V AC, (UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Switching capacity (auxiliary contacts, pilot duty)                        |  | A600, AC operated (UL/CSA)<br>P300, DC operated (UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Contacts</b>                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Code number                                                                |  | 35 in combination with DILA(C)-31<br>26 in combination with DILA(C)-22<br>44E in combination with DILA(C)-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Control circuit reliability                                                |  | $\lambda < 5 \times 1/10^7$ (1 failure at 2,000,000 operations for 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)                              |  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Number of contacts (normally open contacts)                                |  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Design verification</b>                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Equipment heat dissipation, current-dependent P <sub>vid</sub>             |  | 0 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| 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 9.0

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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 (ecl@ss13-27-37-13-02 [AKN342018]) |  |   |                  |
| Number of contacts as change-over contact                                                                                                                                                                  |  |   | 0                |
| Number of contacts as normally open contact                                                                                                                                                                |  |   | 0                |
| Number of contacts as normally closed contact                                                                                                                                                              |  |   | 4                |
| Number of fault-signal switches                                                                                                                                                                            |  |   | 0                |
| Rated operation current Ie at AC-15, 230 V                                                                                                                                                                 |  | A | 4                |
| Type of electric connection                                                                                                                                                                                |  |   | Screw connection |
| Model                                                                                                                                                                                                      |  |   | Clip-on          |
| Mounting method                                                                                                                                                                                            |  |   | Front fastening  |
| Lamp holder                                                                                                                                                                                                |  |   | None             |