DATASHEET - DILA-XHI31

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



| | Part no. EL Number (Norway) | DILA-XHI31 276427 4130218 | |
|-------------------------------|-----------------------------------|---------------------------------|---|
| General specifications | - | | |
| Product name | | | Eaton Moeller® series DILA Accessory Auxiliary contact module |
| Part no. | | | DILA-XHI31 |
| EAN | | | 4015082764272 |
| Product Length/Depth | | | 45 millimetre |
| Product height | | | 38 millimetre |
| Product width | | | 36 millimetre |
| Product weight | | | 0.048 kilogram |
| Certifications | | | CSA Class No.: 3211-03 UL File No.: E29184 UL Category Control No.: NKCR UL 508 CSA File No.: 012528 UL CE IEC/EN 60947 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 CSA VDE 0660 |
| 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)) Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside th auxiliary contact modules, also for the integrated auxiliary contacts of the DILM 7 DILM32 Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Version E combinations correspond to EN 50011 and are to be preferred. |
| Features & Functions | | | |
| Features | | | Interlocked opposing contacts within an auxiliary contact module (according to IE 60947-5-1 Annex L) |
| Functions | | | For standard applications |
| Fitted with: | | | Switching elements according to EN 50005 Interlocked opposing contacts |
| Number of poles | | | Four-pole |
| Electric connection type | | | Screw connection |
| General information | | | |
| Degree of protection | | | IP20 |
| Shock resistance | | | 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 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 |
| Lifespan, electrical | | | 1,300,000 Operations (at 230 V, AC-15, 3 A) |
| Lifespan, mechanical | | | 10,000,000 Operations (DC operated) 10,000,000 Operations (AC operated) |
| Model | | | Top mounting |
| Mounting method | | | Front fastening |
| Operating frequency | | | 9000 Operations/h |
| Overvoltage category | | | |
| Pollution degree | | | 3 |
| Protection | | | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| Rated impulse withstand v | voltage (Uimp) | | 6000 V AC |
| Туре | | | Front mounting auxiliary contact |

| Climatic environmental conditions | |
|---|---|
| | -25 °C |
| Ambient operating temperature - min Ambient operating temperature - max | -23 C |
| Ambient operating temperature - max | 25 °C |
| | 40 °C |
| Ambient operating temperature (enclosed) - max | 40 °C |
| Ambient storage temperature - min | 40 °C |
| Ambient storage temperature - max | |
| Climatic proofing | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| Terminal capacities | |
| Terminal capacity (flexible with ferrule) | 1 x (0.75 - 2.5) mm², Screw terminals 2 x (0.75 - 2.5) mm², Screw terminals |
| Terminal capacity (solid) | 2 x (0.75 - 2.5) mm², Screw terminals 1 x (0.75 - 2.5) mm², Screw terminals |
| Terminal capacity (solid/stranded AWG) | 18 - 14, Screw terminals |
| Screw size | M3.5, Terminal screw |
| Screwdriver size | 2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver |
| Tightening torque | 1.2 Nm, Screw terminals |
| Electrical rating | |
| Conventional thermal current ith at 60°C (3-pole, open) | 16 A |
| Rated operational current (le) | 0.5 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in series) 10 A at 60 V, DC L/R \leq 15 ms (with 2 contacts in series) 6 A at 110 V, DC L/R \leq 15 ms (with 3 contacts in series) 6 A at 60 V, DC L/R \leq 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R \leq 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R \leq 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R \leq 15 ms (with 1 contact in series) 2.5 A at 24 V, DC L/R \leq 50 ms (with 1 contacts in series) 0.25 A at 220 V, DC L/R \leq 50 ms (with 3 contacts in series) 5 A at 220 V, DC L/R \leq 50 ms (with 3 contacts in series) 1 A at 60 V, DC L/R \leq 50 ms (with 3 contacts in series) |
| Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V | 4 A |
| Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V | 4 A |
| Rated operational current (Ie) at AC-15, 500 V | 1.5 A |
| Rated operational current (Ie) at DC-13, 24 V | 2.5 A |
| Rated operational current (Ie) at DC-13, 60 V | 1 A |
| Rated operational current (Ie) at DC-13, 110 V | 0.5 A |
| Rated operational current (Ie) at DC-13, 220 V, 230 V | 0.25 A |
| Rated insulation voltage (Ui) | 690 V |
| Rated operational voltage (Ue) 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 400 V AC, Between coil and auxiliary contacts, According to EN 61140 |
| Switching capacity (auxiliary contacts, general use) | 10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) |
| Switching capacity (auxiliary contacts, pilot duty) | P300, DC operated (UL/CSA) A600, AC operated (UL/CSA) |
| Contacts | |
| Code number | 53 in combination with DILA(C)-22 62 in combination with DILA(C)-31 71E in combination with DILA(C)-40 |
| Control circuit reliability | $<$ 2 $\lambda,<$ 1 failure at 100,000,000 Operations (at U# = 24 V DC, Umin = 17 V, Imin = 5.4 mA) |
| Number of contacts (change-over contacts) | 0 |
| Number of contacts (normally closed contacts) | 1 |
| Number of contacts (normally open contacts) | 3 |
| Design verification | |
| Equipment heat dissipation, current-dependent Pvid | 0 W |
| Heat dissipation capacity Pdiss | 0 W |
| Heat dissipation per pole, current-dependent Pvid | 0.16 W |
| Rated operational current for specified heat dissipation (In) | 4 A |
| | |

| Static heat dissipation, non-current-dependent Pvs | 0 W |
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| 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

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@ss10.0.1-27-37-13-02 [AKN342013]) 0 Number of contacts as change-over contact 3 Number of contacts as normally open contact Number of contacts as normally closed contact 1 Number of fault-signal switches 0 Rated operation current le at AC-15, 230 V А 4 Type of electric connection Screw connection Model Top mounting Mounting method Front fastening Lamp holder None