



Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Screw terminals, DILM40 - DILM170

Part no. DILM150-XHI31

277949

**EL Number
(Norway)**

4130498

| General specifications | |
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| Product name | Eaton Moeller® series DILM auxiliary contact module |
| Part no. | DILM150-XHI31 |
| EAN | 4015082779498 |
| Product Length/Depth | 39 millimetre |
| Product height | 46 millimetre |
| Product width | 45 millimetre |
| Product weight | 0.055 kilogram |
| Certifications | UL Category Control No.: NKCR VDE 0660 CSA File No.: 012528 IEC/EN 60947-4-1 UL 508 UL UL File No.: E29184 IEC/EN 60947 CSA CSA Class No.: 3211-03 CE CSA-C22.2 No. 14-05 |
| Product Tradename | DILM |
| 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 the auxiliary contact module Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| 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: | Interlocked opposing contacts |
| Number of poles | Four-pole |
| Electric connection type | Screw connection |
| General information | |
| Degree of protection | IP20 |
| Lifespan, electrical | 1,300,000 Operations (at 230 V, AC-15, 3 A) |
| Model | Top mounting |
| Mounting method | Front fastening |
| 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 |
| Ambient conditions, mechanical | |
| Shock resistance | 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |
| Climatic environmental conditions | |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 60 °C |

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| 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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| Terminal capacities | | |
| Terminal capacity (flexible with ferrule) | | 2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ² |
| Terminal capacity (solid) | | 2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ² |
| Terminal capacity (solid/stranded AWG) | | 18 - 14 |
| 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 | | |
| Rated operational current (Ie) | | 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) |
| Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V | | 6 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 insulation voltage (Ui) | | 690 V |
| Rated operational voltage (Ue) at AC - max | | 500 V |
| Short-circuit rating | | |
| Short-circuit protection rating | | Max. 16 A gG/gL, Fuse, Without welding, Auxiliary contacts |
| Short-circuit protection rating without welding | | 16 A gG/gL, 500 V, Max. Fuse, Contacts |
| Conventional thermal current Ith | | |
| Conventional thermal current Ith at 60°C (3-pole, open) | | 16 A |
| Switching capacity | | |
| Switching capacity (auxiliary contacts, general use) | | 1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA) |
| Switching capacity (auxiliary contacts, pilot duty) | | A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) |
| Communication | | |
| Connection type | | Screw connection |
| Contacts | | |
| Control circuit reliability | | $\lambda < 5 \times 10^{-7}$ (1 failure at 2,000,000 operations for 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 |
| Safety | | |
| Safe isolation | | 440 V AC, Between coil and auxiliary contacts, According to EN 61140 440 V AC, Between auxiliary contacts, According to EN 61140 |
| Design verification | | |
| Equipment heat dissipation, current-dependent Pvid | | 0 W |
| Heat dissipation capacity Pdiss | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0.23 W |
| Rated operational current for specified heat dissipation (In) | | 4 A |
| Static heat dissipation, non-current-dependent Pvs | | 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. |

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| 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 (ecI@ss13-27-37-13-02 [AKN342018]) | | |
| Number of contacts as change-over contact | | 0 |
| Number of contacts as normally open contact | | 3 |
| Number of contacts as normally closed contact | | 1 |
| Number of fault-signal switches | | 0 |
| Rated operation current I _e at AC-15, 230 V | A | 6 |
| Type of electric connection | | Screw connection |
| Model | | Clip-on |
| Mounting method | | Front fastening |
| Lamp holder | | None |