

Auxiliary contact module, 2 pole, 2 NC, Front fixing, Screw terminals, DILE(E)M**Part no.** 02DILEM

010064

EL Number

4130385

(Norway)

| General specifications | | |
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| Product name | | Eaton Moeller® series DILEM Accessory Auxiliary contact module |
| Part no. | | 02DILEM |
| EAN | | 4015080100645 |
| Product Length/Depth | | 36 millimetre |
| Product height | | 32 millimetre |
| Product width | | 45 millimetre |
| Product weight | | 0.03 kilogram |
| Certifications | | IEC/EN 60947-4-1 CSA Class No.: 3211-03 UL Category Control No.: NKCR CSA-C22.2 No. 14-05 VDE 0660 UL UL 508 CSA UL File No.: E29184 CE IEC/EN 60947 CSA File No.: 012528 |
| Product Tradename | | DILEM |
| 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)) Conventional thermal current at maximum permissible ambient air temperature. 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 DILER, DILE(E)M Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Switching elements according to EN 50012 are to be preferred. Version E combinations correspond to EN 50011 and are to be preferred. |
| Features & Functions | | |
| Electric connection type | | Screw connection |
| Features | | Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L) |
| Fitted with: | | Interlocked opposing contacts |
| Functions | | For standard applications |
| Number of poles | | Two-pole |
| General information | | |
| Degree of protection | | IP20 |
| Lifespan, mechanical | | 20,000,000 Operations (DC operated) 10,000,000 Operations (AC operated) 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) |
| Model | | Top mounting |
| Mounting method | | Front fastening |
| Mounting position | | As required (except vertical with terminals A1/A2 at the bottom) |
| 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 |
| Shock resistance | | 10 g, N/O contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |

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| | | 8 g, N/C 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 | | 50 °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, 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 - 1.5) mm ² 1 x (0.75 - 1.5) mm ² |
| Terminal capacity (solid) | | 1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ² |
| Terminal capacity (solid/stranded AWG) | | Single 18 – 14, double 18 – 14 |
| 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 | | |
| Rated operational voltage (Ue) at AC - max | | 600 V |
| Rated insulation voltage (Ui) | | 690 V |
| Rated operational current (Ie) | | 2.5 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 1.5 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 0.5 A at 220 V, DC L/R ≤ 15 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 | | 2 A |
| Rated operational current (Ie) at AC-15, 500 V | | 1.5 A |
| Safe isolation | | 300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140 |
| Short-circuit rating | | |
| Short-circuit protection rating | | 10 A fast, 500V, Maximum fuse, Short-circuit rating without welding, Contacts |
| Short-circuit protection rating without welding | | 6 A gG/gL, 500 V, Max. Fuse, Contacts |
| Conventional thermal current Ith | | |
| Conventional thermal current Ith of auxiliary contacts (1-pole, open) | | 10 A |
| Switching capacity | | |
| Switching capacity (auxiliary contacts, general use) | | 0.5 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA) |
| Switching capacity (auxiliary contacts, pilot duty) | | A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) |
| Contacts | | |
| Control circuit reliability | | < 2 λ, < 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) | | 2 |
| Number of contacts (normally open contacts) | | 0 |
| Design verification | | |
| Equipment heat dissipation, current-dependent Pvid | | 0 W |
| Heat dissipation capacity Pdiss | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0.24 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. |

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| 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 | | | 2 |
| Number of fault-signal switches | | | 0 |
| Rated operation current I _e at AC-15, 230 V | | A | 4 |
| Type of electric connection | | | Screw connection |
| Model | | | Clip-on |
| Mounting method | | | Front fastening |
| Lamp holder | | | None |