Products Digita DILA CONTACTOR RELAY How t 276413 Specifications Overview 276413 Eaton Moeller® series DILA Contactor relay, 12 V terminals, DC operation How to buy Photo is representative

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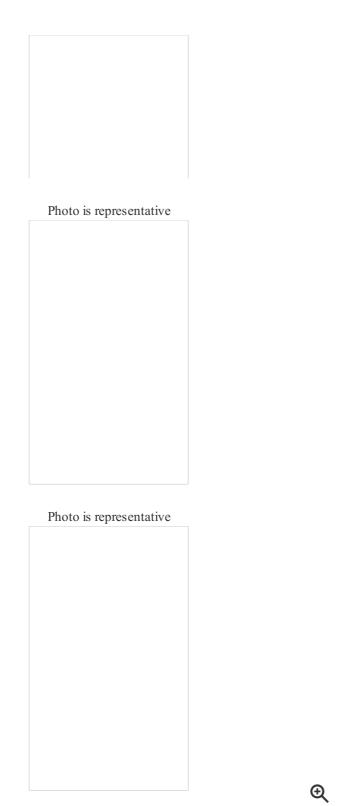


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276426

Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

276427

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

276421

Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

101672

Eaton Moeller® series DILM Di suppressor, for DILA, M7-15

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GENERAL SPECIFICATIONS

| General specifications | > |
|------------------------|---|
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| | |
| | |
| Product specifications | > |
| _ | |

| PRODUCTNAME | Eaton Moeller® series DILA Control Relay |
|----------------------|--|
| CATALOG NUMBER | 276413 |
| MODEL CODE | DILA-22(12VDC) |
| EAN | 4015082764135 |
| PRODUCT LENGTH/DEPTH | 75 mm |
| PRODUCTHEIGHT | 68 mm |
| PRODUCTWIDTH | 45 mm |
| PRODUCTWEIGHT | 0.29 kg |
| COMPLIANCES | CE Marked |
| | EN 60947-4-1 |
| | CSA Std. C22.2 No. 14-05 |
| | III 500 |

UL 508 IEC 60947-4-1

VDE

UL Category Control No.: NKCR

UL File No.: E29184 CSA-C22.2 No. 14-05 IEC/EN 60947

EN 60947-5-1 CE

CE CSA

CSA Class No.: 3211-03 CSA File No.: 012528

UL

IEC/EN 60947-4-1

CERTIFICATIONS

PRODUCT SPECIFICATIONS

| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 15.5 A |
|---|--|
| TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) | 1 x (0.75 - 2.5) mm², Screw terminals 2 x (0.75 - 2.5) mm², Screw terminals |
| 10.11 SHORT-CIRCUIT RATING | Is the panel builder's responsibility. The specification must be observed. |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN | 0 V |
| CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) | 16 A |
| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. |
| MOUNTING METHOD | Screw |
| OPERATING VOLTAGE AT DC - MAX | 220 VDC |
| 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES | Meets the product standard's requirements. |
| AMBIENT STO RAGE TEMPERATURE - MIN | 40 °C |
| FITIED WITH: | Positive operation contacts Suppressor circuit Built-in suppressor circuit |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX | 0 V |
| OPERATING VOLTAGE AT DC - MIN | 24 VDC |
| AMBIENT OPERATING TEMPERATURE - MAX | 60 °C |
| FEATURES | Positive operating contacts to EN 60947-5-1 appendauxiliary contact module |
| POWER CONSUMPTION (SEALING) AT DC | 2.6 W |
| VOLTAGE TO LERANCE | Smoothed DC, three-phase bridge rectifiers or smoo rectification |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to |
| 10.2.6 MECHANICAL IMPACT | Does not apply, since the entire switchgear needs to |
| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Does not apply, since the entire switchgear needs to |
| APPLICATION | Contactor relays |
| | |

| RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V | 4 A |
|--|---|
| O PERATING FREQUENCY | 9000 Operations/h |
| VOLTAGE TYPE | DC |
| PRODUCT CATEGORY | DILA relays |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| CONNECTION TYPE (AUXILIARY CIRCUIT) | Screw connection |
| SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING | 10 A gG/gL, 500 V, Max. Fuse, Contacts |
| OPERATING VOLTAGE AT AC, 60 HZ - MAX | 500 V |
| TERMINAL CAPACITY (SOLID/STRANDED AWG) | 18 - 14, Screw terminals |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| DEGREE OF PROTECTION | IP20 |
| OVERVOLTAGE CATEGORY | Ш |
| AMBIENT STO RAGE TEMPERATURE - MAX | 80 °C |
| VOLTAGE TYPE OF OPERATING VOLTAGE | AC/DC |
| POLLUTION DEGREE | 3 |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6000 V AC |
| CONNECTION | Screw terminals |
| OPERATING VOLTAGE AT AC, 60 HZ - MIN | 17 V |
| TIGHTENING TORQUE | 1.2 Nm, Screw terminals |
| 10.2.2 CORROSION RESISTANCE | Meets the product standard's requirements. |
| 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION | Meets the product standard's requirements. |
| 10.2.7 INSCRIPTIONS | Meets the product standard's requirements. |
| NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) | 2 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 2 |
| SHOCK RESISTANCE | 7 g, N/O auxiliary contact, Basic unit with auxiliary Mechanical, according to IEC/EN 60068-2-27, Half-ms 5 g, N/C auxiliary contact, Basic unit with auxiliary Mechanical, according to IEC/EN 60068-2-27, Half-ms |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN | 25 °C |
| OPERATING VOLTAGE AT AC, 50 HZ - MAX 5/9 | 500 V |

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| 10.12 ELECTROMAGNETIC COMPATIBILITY | Is the panel builder's responsibility. The specification must be observed. |
| 10.2.5 LIFTING | Does not apply, since the entire switchgear needs to |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS, DELAYED SWITCHING) | 0 |
| STRIPPING LENGTH (MAIN CABLE) | 10 mm |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX | 40 °C |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN | 12 V |
| 10.8 CONNECTIONS FOR EXIERNAL CONDUCTORS | Is the panel builder's responsibility. |
| SCREW SIZE | M3.5, Terminal screw |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS, LEADING) | 0 |
| PROTECTION | Finger and back-of-hand proof, Protection against dactuated from front (EN 50274) |
| CLIMATIC PROOFING | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| CODENUMBER | 22E |
| CONNECTION TO SMARTWIRE-DT | No |
| STATIC HEAT DISSIPATION, NON-CURRENT- DEPENDENT PVS | 3 W |
| RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V | 1.5 A |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX | 12 V |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to |
| SAFEISOLATION | 400 V AC, Between auxiliary contacts, According 400 V AC, Between coil and auxiliary contacts, Ac |
| OPERATING VOLTAGE AT AC, 50 HZ - MIN | 17 V |
| RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V | 4 A |
| 10.13 MECHANICAL FUNCTION | The device meets the requirements, provided the in instruction leaflet (IL) is observed. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) | 2 |
| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT | |
| 6/9 | 1 W |

PVID

| - 1 | |
|--|--|
| ACTUATING VOLTAGE | 12 V DC |
| SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX | 12 ms |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE) | 15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) |
| SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX | 31 ms |
| EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID | 0 W |
| RATED SWITCH CURRENT | 16 A |
| RATED OPERATIONAL CURRENT (IE) | 10 A at 60 V, DC L/R \leq 15 ms (with 2 contacts in 1 A at 220 V, DC L/R \leq 15 ms (with 1 contact in s 6 A at 110 V, DC L/R \leq 15 ms (with 3 contacts in 5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in 4 A at 24 V, DC L/R \leq 50 ms (with 3 contacts in 1 A at 220 V, DC L/R \leq 50 ms (with 3 contacts in 10 A at 24 V, DC L/R \leq 50 ms (with 1 contact in s 6 A at 60 V, DC L/R \leq 15 ms (with 1 contact in s 3 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in 2 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in 15 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in 15 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in 15 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in 16 A |
| PICK-UP VOLTAGE | 0.8 - 1.1 V DC x Uc 0.7 - 1.3 V DC x Uc (at 24 V: without auxiliary co ambient air temperature + 40 °C) |
| TERMINAL CAPACITY (SOLID) | 1 x (0.75 - 4) mm², Screw terminals 2 x (0.75 - 2.5) mm², Screw terminals |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 2 |
| 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. |
| LIFESPAN, MECHANICAL | 20,000,000 Operations (DC operated) |
| CONTROL CIRCUIT RELIABILITY | λ < 5 x 10-7 (1 failure at 2,000,000 operations for U = 17 V, Imin = 5.4 mA) |
| NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS) | 0 |
| RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX | 690 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN | 0 V |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| POWER CONSUMPTION (PICK-UP) AT DC | 2.6 W |

| 10.10 TEMPERATURE RISE | The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi |
|---|---|
| SCREWDRIVER SIZE | 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard scre 2, Terminal screw, Pozidriv screwdriver |
| DUTY FACTOR | 100 % |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX | 0 V |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY) | A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) |
| RATED INSULATION VOLTAGE (UI) | 690 V |
| | |

| Catalogs |
|----------------------------|
| Characteristic curve |
| Declarations of conformity |
| Drawings |
| eCAD model |
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| Installation videos |
| mCAD model |
| System overview |
| Wiring diagrams |

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