

Contactor relay, 220 V 50/60 Hz, 4 N/O, Push in terminals, AC operation



Part no. **DILA-40(220V50/60HZ)-PI**
199637

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| Product name | Eaton Moeller® series DILA Control Relay |
| Part no. | DILA-40(220V50/60HZ)-PI |
| EAN | 4015081983384 |
| Product Length/Depth | 75 millimetre |
| Product height | 68 millimetre |
| Product width | 45 millimetre |
| Product weight | 0.227 kilogram |
| Certifications | EN 60947-5-1 IEC/EN 60947 VDE 0660 |
| Product Tradename | DILA |
| Product Type | Control Relay |
| Product Sub Type | None |
| Catalog Notes | Coil terminal markings according to EN 50005 Contact numbers according to EN 50011 Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| Features | Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module |
| Fitted with: | Positive operation contacts |
| Application | Contactor relays |
| 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, mechanical | 20,000,000 Operations (AC operated) |
| Mounting method | DIN-rail/screw |
| Operating frequency | 9000 Operations/h |
| Overvoltage category | III |
| Pollution degree | 3 |
| Product category | DILA relays |
| 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 |
| Voltage type | AC |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 60 °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 capacity (flexible with ferrule) | 1 x (0.5 - 1.5) mm ² , Control circuit cables 2 x (0.5 - 1.5) mm ² |
| Terminal capacity (solid) | 1 x (0.5 - 0.25) mm ² 2 x (0.5 - 2.5) mm ² , Control circuit cables |
| Terminal capacity (solid/stranded AWG) | 20 - 14 |

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| Stripping length (main cable) | | 10 mm |
| Screwdriver size | | 3.0 x 0.5 mm, Terminal screw |
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| Rated operational current (Ie) | | 4 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) 10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 2 A at 110 V, DC L/R ≤ 50 ms (with 3 contacts in series) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 10 A at 24 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) 4 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series) 1 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series) 16 A |
| 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 insulation voltage (Ui) | | 690 V |
| Rated operational voltage (Ue) at AC - max | | 690 V |
| Short-circuit protection rating without welding | | 10 A gG/gL, 500 V, Max. Fuse, Contacts |
| Safe isolation | | 400 V AC, Between coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140 |
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| Duty factor | | 100 % |
| Pick-up voltage | | 0.8 - 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz) 0.85 - 1.1 V AC x Uc |
| Power consumption, pick-up, 60 Hz | | 27 VA, AC, Dual-frequency coil at 60 Hz 25 VA, AC, Dual-frequency coil at 60 Hz |
| Power consumption, sealing, 50 Hz | | 4.2 VA, Dual-frequency coil in a cold state and 1.0 x Us 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us 3.3 VA, Dual-frequency coil in a cold state and 1.0 x Us |
| Power consumption, sealing, 60 Hz | | 3.3 VA, Dual-frequency coil in a cold state and 1.0 x Us 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us 4.2 VA, Dual-frequency coil in a cold state and 1.0 x Us |
| Rated control supply voltage (Us) at AC, 50 Hz - min | | 220 V |
| Rated control supply voltage (Us) at AC, 50 Hz - max | | 220 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | | 220 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | | 220 V |
| Rated control supply voltage (Us) at DC - min | | 0 V |
| Rated control supply voltage (Us) at DC - max | | 0 V |
| Switching time (AC operated, make contacts, closing delay) - min | | 15 ms |
| Switching time (AC operated, make contacts, closing delay) - max | | 21 ms |
| Switching time (AC operated, make contacts, opening delay) - min | | 9 ms |
| Switching time (AC operated, make contacts, opening delay) - max | | 18 ms |
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| Connection | | Push in terminals |
| Connection to SmartWire-DT | | No |
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| Code number | | 40E |
| 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 auxiliary contacts (change-over contacts) | | 0 |
| Number of contacts (normally open contacts) | | 4 |
| Number of auxiliary contacts (normally closed contacts) | | 0 |
| Number of auxiliary contacts (normally open contacts) | | 4 |

Technical data ETIM 8.0

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| Low-voltage industrial components (EG000017) / Contactor relay (EC000196) | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss10.0.1-27-37-10-01 [AAB716014]) | | |
| Rated control supply voltage Us at AC 50HZ | V | 220 - 220 |
| Rated control supply voltage Us at AC 60HZ | V | 220 - 220 |
| Rated control supply voltage Us at DC | V | 0 - 0 |

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| Voltage type for actuating | | AC |
| Rated operation current I _e , 400 V | A | 4 |
| Connection type auxiliary circuit | | Spring clamp connection |
| Mounting method | | DIN-rail/screw |
| Interface | | No |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Number of auxiliary contacts as normally open contact | | 4 |
| Number of auxiliary contacts as normally closed contact, delayed switching | | 0 |
| Number of auxiliary contacts as normally open contact, leading | | 0 |
| Number of auxiliary contacts as change-over contact | | 0 |
| With LED indication | | No |
| Suitable for manual operation | | No |