DATASHEET - DILM170(RAC240)

Contactor, 3 pole, 380 V 400 V 90 kW, RAC 240: 190 - 240 V 50/60 Hz, AC operation, Screw terminals



| Part no. | DILM170(RAC240) |
|-----------|-----------------|
| | 107013 |
| EL Number | 4130443 |
| (Norway) | |

General specifications

| General specifications | |
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| Product name | Eaton Moeller® series DILM contactor |
| Part no. | DILM170(RAC240) |
| EAN | 4015081067817 |
| Product Length/Depth | 160 millimetre |
| Product height | 170 millimetre |
| Product width | 90 millimetre |
| Product weight | 2.25 kilogram |
| Certifications | CE CSA File No.: 012528 IEC/EN 60947 CSA Class No.: 2411-03, 3211-04 CSA UL IEC/EN 60947-4-1 UL File No.: E29096 CSA-C22.2 No. 60947-4-1-14 VDE 0660 UL 60947-4-1 UL Category Control No.: NLDX |
| Product Tradename | DILM |
| Product Type | Contactor |
| Product Sub Type | None |
| Catalog Notes | Contacts according to EN 50012 |
| Features & Functions | |
| Fitted with: | Suppressor circuit in actuating electronics |
| General information | |
| Application | Contactors for Motors |
| Degree of protection | IPOO |
| Frame size | FS4 |
| Lifespan, mechanical | 10,000,000 Operations (AC operated) |
| Operating frequency | 3000 mechanical Operations/h (AC operated) |
| Overvoltage category | III |
| Pollution degree | 3 |
| Product category | Contactors |
| Protection | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| Rated impulse withstand voltage (Uimp) | 8000 V AC |
| Residual current | 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) |
| Resistance per pole | 0.6 mΩ |
| Utilization category | AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running |
| Voltage type | AC |
| Ambient conditions, mechanical | |
| Shock resistance | 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main 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 7 g, N/O 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 when tabletop-mounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms |

| Climatic environmental conditions | |
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| Altitude | Max. 2000 m |
| 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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Electro magnetic compatibility | |
| Emitted interference | According to EN 60947-1 |
| Interference immunity | According to EN 60947-1 |
| Terminal capacities | |
| Terminal capacity (copper band) | 2 x (6 x 16 x 0.8) mm (Number of segments x width x thickness), Main cables |
| Terminal capacity (flexible with ferrule) | 2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (10 - 95) mm ² , Main cables 1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (10 - 70) mm ² , Main cables |
| Terminal capacity (solid) | 1 x (0.75 - 4) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables |
| Terminal capacity (solid/stranded AWG) | 18 - 14, Control circuit cables Single 83/0, double 82/0, Main cables |
| Terminal capacity (stranded) | 1 x (16 - 95) mm², Main cables 2 x (16 - 70) mm², Main cables |
| Stripping length (main cable) | 24 mm |
| Stripping length (control circuit cable) | 10 mm |
| Screw size | M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables |
| Screwdriver size | 2, Terminal screw, Control circuit cables, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver |
| Tightening torque | 14 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables |
| Electrical rating | |
| Rated breaking capacity at 220/230 V | 1500 A |
| Rated breaking capacity at 380/400 V | 1500 A |
| Rated breaking capacity at 500 V | 1500 A |
| Rated breaking capacity at 660/690 V | 1320 A |
| Rated operational current (le) at AC-1, 380 V, 400 V, 415 V | 225 A |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V | 170 A |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V | 170 A |
| Rated operational current (Ie) at AC-3, 440 V | 170 A |
| Rated operational current (Ie) at AC-3, 500 V | 170 A |
| Rated operational current (le) at AC-3, 660 V, 690 V | 100 A |
| Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V | 65 A |
| Rated operational current (Ie) at AC-4, 440 V | 65 A |
| Rated operational current (Ie) at AC-4, 500 V | 65 A |
| Rated operational current (Ie) at AC-4, 660 V, 690 V | 50 A |
| Rated operational current (Ie) at DC-1, 60 V | 160 A |
| Rated operational current (le) at DC-1, 110 V | 160 A |
| Rated operational current (Ie) at DC-1, 220 V | 90 A |
| Rated insulation voltage (Ui) | 690 V |
| Rated making capacity up to 690 V (cos phi to IEC/EN 60947) | 2100 A |
| Rated operational power at AC-3, 240 V, 50 Hz | 57 kW |
| Rated operational power at AC-3, 380/400 V, 50 Hz | 90 kW |
| Rated operational power at AC-3, 415 V, 50 Hz | 100 kW |
| Rated operational power at AC-3, 440 V, 50 Hz | 105 kW |
| Rated operational power at AC-3, 500 V, 50 Hz | 120 kW |
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| Rated operational power at AC-3, 690 V, 50 Hz | 96 kW |
| Rated operational power at AC-4, 220/230 V, 50 Hz | 20 kW |
| Rated operational power at AC-4, 240 V, 50 Hz | 22 kW |
| Rated operational power at AC-4, 415 V, 50 Hz | 39 kW |
| Rated operational power at AC-4, 440 V, 50 Hz | 41 kW |
| Rated operational power at AC-4, 500 V, 50 Hz | 47 kW |
| Rated operational power at AC-4, 660/690 V, 50 Hz | 48 kW |
| Rated operational voltage (Ue) at AC - max | 690 V |
| Short-circuit rating | |
| Short-circuit current rating (basic rating) | 600 A, max. Fuse, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) |
| Short-circuit current rating (high fault at 480 V) | 65 kA, CB, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA) |
| Short-circuit current rating (high fault at 600 V) | 30/100 kA, Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA) 300/600 A, Class J, max. Fuse, SCCR (UL/CSA) |
| Short-circuit protection rating (type 1 coordination) at 400 V | 250 A gG/gL |
| Short-circuit protection rating (type 1 coordination) at 690 V | 250 A gG/gL |
| Short-circuit protection rating (type 2 coordination) at 400 V | 250 A gG/gL |
| Short-circuit protection rating (type 2 coordination) at 690 V | 250 A gG/gL |
| Conventional thermal current Ith | |
| Conventional thermal current ith (1-pole, enclosed) | 415 A |
| Conventional thermal current ith (3-pole, enclosed) | 166 A |
| Conventional thermal current ith at 55°C (3-pole, open) | 190 A |
| Conventional thermal current ith at 60°C (3-pole, open) | 185 A |
| Conventional thermal current ith of main contacts (1-pole, open) | 460 A |
| Switching capacity | |
| Switching capacity (main contacts, general use) | 225 A, Maximum motor rating (UL/CSA) |
| Magnet system | |
| Arcing time | 15 ms |
| Drop-out voltage | AC operated: 0.6 - 0.25 x UC, AC operated |
| Duty factor | 100 % |
| Pick-up voltage | 0.8 - 1.15 V AC x Uc |
| Power consumption, pick-up, 50 Hz | 180 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz |
| Power consumption, pick-up, 60 Hz | 170 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz |
| Power consumption, sealing, 50 Hz | 2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz |
| Power consumption, sealing, 60 Hz | 2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz |
| Rated control supply voltage (Us) at AC, 50 Hz - min | 190 V |
| Rated control supply voltage (Us) at AC, 50 Hz - max | 240 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | 190 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | 240 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 | 28 ms |
| Switching time (AC operated, make contacts, closing delay) - max | 33 ms |
| Switching time (AC operated, make contacts, opening delay) - min | 35 ms |
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| Switching time (AC operated, make contacts, opening delay) - max | 41 ms |
| Switching time (AC operated, make contacts, opening delay) - max Motor rating | 41 ms |
| | 10 HP |
| Motor rating Assigned motor power at 115/120 V, 60 Hz, 1-phase Assigned motor power at 200/208 V, 60 Hz, 3-phase | 10 HP 50 HP |
| Motor rating Assigned motor power at 115/120 V, 60 Hz, 1-phase Assigned motor power at 200/208 V, 60 Hz, 3-phase Assigned motor power at 230/240 V, 60 Hz, 1-phase | 10 HP 50 HP 30 HP |
| Motor rating Assigned motor power at 115/120 V, 60 Hz, 1-phase Assigned motor power at 200/208 V, 60 Hz, 3-phase | 10 HP 50 HP |

| Communication | Assigned motor power at 575/600 V, 60 Hz, 3-phase | 125 HP |
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| Should have base base base base base base base bas | Special purpose rating of elevator control | 40 HP, 240 V 60 Hz 3-ph, (UL/CSA) 75 HP, 480 V 60 Hz 3-ph, (UL/CSA) 30 HP, 200 V 60 Hz 3-ph, (UL/CSA) 100 HP, 600 V 60 Hz 3-ph, (UL/CSA) 99 A, 600 V 60 Hz 3-ph, (UL/CSA) 104 A, 240 V 60 Hz 3-ph, (UL/CSA) |
| Special purpose rating of tungston incandescent lamps 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UUCSA) Special purpose rating of tungston incandescent lamps 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UUCSA) Equipment heat dissipation, numeri-dependent Pvid 41.1 W Heat dissipation, purpose, current-dependent Pvid 13.7 W Heat dissipation, promet-dependent Pvid 13.7 W Rated operational current for specified heat dissipation (In) 170 A Static heat dissipation, on-current-dependent Pvs 2.3 W 102.2 Verification of trems tability of enclosures Meets the product standard's requirements. 102.2.1 Verification of trems tability of enclosures Meets the product standard's requirements. 102.2.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.2.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.2.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.4 Verification of resistance of insulating material | Special purpose rating of refrigeration control (CSA only) | 540 A, LRA 480 V 60 Hz 3phase; (CSA) 90 A, FLA 600 V 60 Hz 3phase; (CSA) |
| Design verification 100 A, 400 V 60 Hz 3ghase, 277 V 60 Hz 1ghase, (U/CSA) Equipment hast dissipation, current-dependent Pvid 41.1 W Heat dissipation propele, current-dependent Pvid 00 Rated operational current for specified heat dissipation (In) 13.7 W Static heat dissipation, non-current-dependent Pvid 2.3 W 10.2.2.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.2.2 Verification of travistance of insultating metralis to normal heat Meets the product standard's requirements. 10.2.2.2 Verification of resistance Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insultating metralis to normal heat Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insultating metralis to normal heat Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insultating metralis to normal heat Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insultating metralis to normal heat Meets the product standard's requirements. 10.2.4 Resistance to utra-violet (W) rediction Dess not apply, since the entire switchger needs to be evaluated. 10.2.5 Netcherized incurve Netcherized incu | Special purpose rating of resistance air heating | |
| Equipment heat dissipation, current-dependent Pvid 1.1 W Heat dissipation capacity Pdiss 0 W Heat dissipation capacity Pdiss 0 W Rated operational current-dependent Pvid 13.7 W Rated operational current for specified heat dissipation (In) 23 W 102.2 Corosion resistance Meets the product standard's requirements. 102.2.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 102.2.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.2.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.2.4 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.2.5 Urifing Does not apply, since the entire switchgear needs to be evaluated. 102.5 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 102.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 102.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 103.0 Egree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10 | Special purpose rating of tungsten incandescent lamps | |
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| | 10.13 Mechanical function | |

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)

| Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC00006 | 66) | |
|---|--------------------|---|
| Electric engineering, automation, process control engineering / Low-voltage switch tech | nology / Contactor | (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020]) |
| Rated control supply voltage AC 50 Hz | V | 190 - 240 |
| Rated control supply voltage AC 60 Hz | V | 190 - 240 |
| Rated control supply voltage DC | V | 0 - 0 |
| Voltage type for actuating | | AC |
| Number of normally closed contacts as main contact | | 0 |
| Number of normally open contacts as main contact | | 3 |
| Type of electrical connection of main circuit | | Screw connection |
| Operating voltage AC 50 Hz | V | 230 - 690 |
| Operating voltage AC 60 Hz | V | 230 - 690 |
| Rated operation current le at AC-1, 400 V | А | 225 |
| Rated operation current le at AC-3, 400 V | А | 170 |
| Rated operation power at AC-3, 400 V | kW | 90 |
| Rated operation current le at AC-4, 400 V | А | 65 |
| Rated operation power at AC-4, 400 V | kW | 33 |
| Rated operation power NEMA | kW | 93 |
| Number of auxiliary contacts as normally open contact | | 0 |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Modular version | | No |
| Width | mm | 90 |
| Height | mm | 170 |
| Depth | mm | 160 |