

# Specifications



Photo is representative



## Eaton 277002

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 190 V 50 Hz, 220 V 60 Hz, AC operation, Screw terminals DILM17-10(190V50HZ,220V60HZ)

### General specifications

|                             |                                                                                                                                                                                                                                  |
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| <b>PRODUCT NAME</b>         | Eaton Moeller® series DILM contactor                                                                                                                                                                                             |
| <b>CATALOG NUMBER</b>       | 277002                                                                                                                                                                                                                           |
| <b>MODEL CODE</b>           | DILM17-10(190V50HZ,220V60HZ)                                                                                                                                                                                                     |
| <b>EAN</b>                  | 4015082770020                                                                                                                                                                                                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 97 mm                                                                                                                                                                                                                            |
| <b>PRODUCT HEIGHT</b>       | 85 mm                                                                                                                                                                                                                            |
| <b>PRODUCT WIDTH</b>        | 45 mm                                                                                                                                                                                                                            |
| <b>PRODUCT WEIGHT</b>       | 0.428 kg                                                                                                                                                                                                                         |
| <b>CERTIFICATIONS</b>       | UL File No.: E29096<br>UL 60947-4-1<br>CSA Class No.: 2411-03, 3211-04<br>CE<br>IEC/EN 60947-4-1<br>CSA-C22.2 No. 60947-4-1-14<br>IEC/EN 60947<br>VDE 0660<br>CSA File No.: 012528<br>UL<br>CSA<br>UL Category Control No.: NLDX |
| <b>CATALOG NOTES</b>        | Contacts according to EN 50012                                                                                                                                                                                                   |
| <b>GLOBAL CATALOG</b>       | 277002                                                                                                                                                                                                                           |

## Product specifications

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| <b>USED WITH</b>                                                                        | Can be combined with auxiliary contacts: DILM32-XHI, DILA-XHI(V)                                                                 |
| <b>ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT</b>            | Screw connection                                                                                                                 |
| <b>AMPERAGE RATING</b>                                                                  | 170A                                                                                                                             |
| <b>HP RATING - MAX</b>                                                                  | 2, 3/ 5, 5, 10, 15 hp (1/3PH @120, 240/208, 240, 480, 600 V)                                                                     |
| <b>NUMBER OF POLES</b>                                                                  | Three-pole                                                                                                                       |
| <b>TYPE</b>                                                                             | Full voltage non-reversing small contactor                                                                                       |
| <b>VOLTAGE RATING</b>                                                                   | 400 V                                                                                                                            |
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO</b>                                                             | Meets the product                                                                                                                |

## Resources

|                            |                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                            | <a href="#">Product Range Catalog Switching and protecting motors</a>                                                                                                                                                                                                                                                                                                                               |
| CATALOGS                   | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a><br><a href="#">SmartWire-DT Catalog</a>                                                                                                                                                                                                                                                                      |
| CHARACTERISTIC CURVE       | <a href="#">eaton-contactors-switch-dilm-characteristic-curve.eps</a><br><a href="#">eaton-contactors-switch-dilm-characteristic-curve-002.eps</a><br><a href="#">eaton-contactors-component-dilm-characteristic-curve-003.eps</a>                                                                                                                                                                  |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-contactor-declaration-of-conformity-uk251218en.pdf</a><br><a href="#">eaton-contactor-declaration-of-conformity-eu250735en.pdf</a>                                                                                                                                                                                                                                                |
| DRAWINGS                   | <a href="#">eaton-contactors-dimensions-210t014.eps</a><br><a href="#">eaton-contactors-contact-dimensions-210x202.eps</a><br><a href="#">eaton-contactors-mounting-dilm-dimensions.eps</a><br><a href="#">eaton-contactors-mounting-dilm-dimensions-002.eps</a><br><a href="#">eaton-contactors-dilm-3d-drawing-009.eps</a><br><a href="#">eaton-general-ie-ready-dilm-contactor-standards.eps</a> |
| ECAD MODEL                 | <a href="#">ETN.277002.edz</a>                                                                                                                                                                                                                                                                                                                                                                      |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL03407014Z2021_09.pdf</a>                                                                                                                                                                                                                                                                                                                                                              |
| INSTALLATION VIDEOS        | <a href="#">WIN-WIN with push-in technology</a>                                                                                                                                                                                                                                                                                                                                                     |
| MCAD MODEL                 | <a href="#">DA-CD-dil_m17_38</a><br><a href="#">DA-CS-dil_m17_38</a>                                                                                                                                                                                                                                                                                                                                |

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| <b>ULTRA-VIOLET (UV) RADIATION</b>                              | standard's requirements.                                                                                                                                                                                                  |
| <b>10.2.5 LIFTING</b>                                           | Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                        |
| <b>10.2.6 MECHANICAL IMPACT</b>                                 | Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                        |
| <b>10.2.7 INSCRIPTIONS</b>                                      | Meets the product standard's requirements.                                                                                                                                                                                |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                        |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                                                                                                                                                                |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                        |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                        |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                                                                                                                                                                    |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                                                                                                                                                                    |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                                                                                                                                                                    |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                                                                                                                                                                    |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                                                                                                                                                                    |
| <b>FREQUENCY RATING</b>                                         | 50-60 Hz                                                                                                                                                                                                                  |
| <b>OPERATING FREQUENCY</b>                                      | 5000 mechanical Operations/h (AC operated)                                                                                                                                                                                |
| <b>POLLUTION DEGREE</b>                                         | 3                                                                                                                                                                                                                         |
| <b>UTILIZATION CATEGORY</b>                                     | AC-4: Normal AC induction motors: starting, plugging, reversing, inching<br>AC-1: Non-inductive or slightly inductive loads, resistance furnaces<br>AC-3: Normal AC induction motors: starting, switch off during running |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78                                                                                                                                            |

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| PEP ECO-PASSPORT              | <a href="#">eaton-iec-contactors-pep-eato-00124-v0101-en.pdf</a>    |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - 277002</a>                  |
| SYSTEM OVERVIEW               | <a href="#">eaton-contactors-dilm-contactor-system-overview.eps</a> |
| WIRING DIAGRAMS               | <a href="#">eaton-contactors-contact-dilm-wiring-diagram.eps</a>    |

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| <b>CONNECTION TO SMARTWIRE-DT</b>                                       | No              |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                           | 8000 V AC       |
| <b>CONNECTION</b>                                                       | Screw terminals |
| <b>FRAME SIZE</b>                                                       | FS2             |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                              | 60 °C           |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                              | -25 °C          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>                   | 40 °C           |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>                   | -25 °C          |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>                                | 80 °C           |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>                                | -40 °C          |
| <b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>                | 2 HP            |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>                | 5 HP            |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>                | 3 HP            |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>                | 5 HP            |
| <b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>                | 10 HP           |
| <b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>                | 15 HP           |
| <b>CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)</b>              | 80 A            |
| <b>CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)</b>              | 32 A            |
| <b>CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)</b>          | 37 A            |
| <b>CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)</b> | 88 A            |

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| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>      | 2.1 W                                                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                         | 0 W                                                                                                  |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>       | 0.7 W                                                                                                |
| <b>APPLICATION</b>                                             | Contactors for Motors                                                                                |
| <b>PRODUCT CATEGORY</b>                                        | Contactors                                                                                           |
| <b>PROTECTION</b>                                              | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| <b>TERMINALS</b>                                               | Screw terminals                                                                                      |
| <b>ARCING TIME</b>                                             | 10 ms                                                                                                |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>              | Screw connection                                                                                     |
| <b>SCREWDRIVER SIZE</b>                                        | 2, Terminal screw, Pozidriv screwdriver<br>0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver  |
| <b>VOLTAGE TYPE</b>                                            | AC                                                                                                   |
| <b>DEGREE OF PROTECTION</b>                                    | IP00                                                                                                 |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                                                                                    |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 1                                                                                                    |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT</b>    | 0                                                                                                    |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>             | 1                                                                                                    |
| <b>NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)</b>         | 3                                                                                                    |
| <b>OPERATING TEMPERATURE - MAX</b>                             | 60 °C                                                                                                |
| <b>OPERATING TEMPERATURE - MIN</b>                             | -25 °C                                                                                               |
| <b>RATED BREAKING CAPACITY AT 220/230 V</b>                    | 170 A                                                                                                |
| <b>RATED BREAKING CAPACITY AT 380/400 V</b>                    | 170 A                                                                                                |
| <b>RATED BREAKING</b>                                          | 170 A                                                                                                |

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| <b>CAPACITY AT 500 V</b>                                    |                                                                                                                     |
| <b>RATED BREAKING CAPACITY AT 660/690 V</b>                 | 120 A                                                                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b> | 190 V                                                                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b> | 190 V                                                                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b> | 220 V                                                                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 220 V                                                                                                               |
| <b>COIL VOLTAGE</b>                                         | 190-220 Vac, 50/60 Hz                                                                                               |
| <b>CONTINUOUS AMPERE RATING</b>                             | 18 A                                                                                                                |
| <b>DROP-OUT VOLTAGE</b>                                     | AC operated: 0.6 - 0.3 x UC, AC operated                                                                            |
| <b>OVERVOLTAGE CATEGORY</b>                                 | III                                                                                                                 |
| <b>DUTY FACTOR</b>                                          | 100 %                                                                                                               |
| <b>NUMBER OF CONTACTS</b>                                   | 1 NO                                                                                                                |
| <b>EMITTED INTERFERENCE</b>                                 | According to EN 60947-1                                                                                             |
| <b>OPERATION</b>                                            | Non-reversing                                                                                                       |
| <b>INTERFERENCE IMMUNITY</b>                                | According to EN 60947-1                                                                                             |
| <b>LIFESPAN, MECHANICAL</b>                                 | 10,000,000 Operations (AC operated)                                                                                 |
| <b>PICK-UP VOLTAGE</b>                                      | 0.8 - 1.1 V AC x Uc                                                                                                 |
| <b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>                    | 52 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz                                                   |
| <b>SAFE ISOLATION</b>                                       | 440 V AC, Between the contacts, According to EN 61140<br>440 V AC, Between coil and contacts, According to EN 61140 |
| <b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>                    | 67 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz                                                   |
| <b>SCREW SIZE</b>                                           | M3.5, Terminal screw, Control circuit cables<br>M5, Terminal screw, Main cables                                     |
| <b>POWER CONSUMPTION, SEALING, 50 HZ</b>                    | 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz<br>2.1 W, Dual-frequency coil                    |

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|                                                             | in a cold state and 1.0 x Us, at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>POWER CONSUMPTION, SEALING, 60 HZ</b>                    | 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz<br>2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>TERMINAL CAPACITY (STRANDED)</b>                         | 1 x 16 mm <sup>2</sup> , Main cables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b> | 1 A, 250 V DC, (UL/CSA)<br>10 A, 600 V AC, (UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>  | P300, DC operated (UL/CSA)<br>A600, AC operated (UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>            | 1 x (0.75 - 16) mm <sup>2</sup> , Main cables<br>1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables<br>2 x (0.75 - 10) mm <sup>2</sup> , Main cables<br>2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>SHOCK RESISTANCE</b>                                     | 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms<br>7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>5.3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms<br>3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms |
| <b>TERMINAL CAPACITY (SOLID)</b>                            | 2 x (0.75 - 10) mm <sup>2</sup> , Main cables<br>1 x (0.75 - 4) mm <sup>2</sup> , Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                                                                                | circuit cables<br>2 x (0.75 - 2.5) mm <sup>2</sup> ,<br>Control circuit cables<br>1 x (0.75 - 16) mm <sup>2</sup> , Main<br>cables |
| <b>TERMINAL CAPACITY<br/>(SOLID/STRANDED AWG)</b>                              | 18 - 14, Control circuit<br>cables<br>Single 18 - 6, double 18 - 8,<br>Main cables                                                 |
| <b>SWITCHING CAPACITY<br/>(MAIN CONTACTS,<br/>GENERAL USE)</b>                 | 40 A, Maximum motor<br>rating (UL/CSA)                                                                                             |
| <b>POWER CONSUMPTION</b>                                                       | 7.5 kW                                                                                                                             |
| <b>TIGHTENING TORQUE</b>                                                       | 3.2 Nm, Screw terminals,<br>Main cables<br>1.2 Nm, Screw terminals,<br>Control circuit cables                                      |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MAX</b>                   | 0 V                                                                                                                                |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MIN</b>                   | 0 V                                                                                                                                |
| <b>RATED INSULATION<br/>VOLTAGE (UI)</b>                                       | 690 V                                                                                                                              |
| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN<br/>60947)</b> | 238 A                                                                                                                              |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-1,<br/>380 V, 400 V, 415 V</b>     | 40 A                                                                                                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>     | 18 A                                                                                                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>     | 18 A                                                                                                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>440 V</b>                   | 18 A                                                                                                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                   | 18 A                                                                                                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>            | 12 A                                                                                                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>220 V, 230 V, 240 V</b>     | 10 A                                                                                                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>400 V</b>                   | 10 A                                                                                                                               |



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| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>440 V</b>                 | 10 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>500 V</b>                 | 10 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>660 V, 690 V</b>          | 8 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>110 V</b>                 | 35 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>220 V</b>                 | 35 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1, 60<br/>V</b>                  | 35 A   |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 18 A   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 240 V, 50<br/>HZ</b>                 | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>             | 7.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>                 | 10 kW  |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 220/230<br/>V, 50 HZ</b>             | 2.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 240 V, 50<br/>HZ</b>                 | 3 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 380/400<br/>V, 50 HZ</b>             | 4.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 415 V, 50<br/>HZ</b>                 | 5 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 440 V, 50<br/>HZ</b>                 | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 500 V, 50<br/>HZ</b>                 | 6 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 660/690<br/>V, 50 HZ</b>             | 6.5 kW |
| <b>RATED OPERATIONAL<br/>POWER (NEMA)</b>                                    | 7.4 kW |

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| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>                       | 690 V                                                                                                                                           |
| <b>RESISTANCE PER POLE</b>                                              | 2.7 mΩ                                                                                                                                          |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>               | 2.1 W                                                                                                                                           |
| <b>STRIPPING LENGTH (CONTROL CIRCUIT CABLE)</b>                         | 10 mm                                                                                                                                           |
| <b>STRIPPING LENGTH (MAIN CABLE)</b>                                    | 10 mm                                                                                                                                           |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b> | 22 ms                                                                                                                                           |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b> | 16 ms                                                                                                                                           |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX</b> | 14 ms                                                                                                                                           |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN</b> | 8 ms                                                                                                                                            |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>                      | 5 kA, SCCR (UL/CSA)<br>125 A, max. Fuse, SCCR (UL/CSA)<br>125 A, max. CB, SCCR (UL/CSA)                                                         |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b>               | 10/100 kA, Fuse, SCCR (UL/CSA)<br>10/65 kA, CB, SCCR (UL/CSA)<br>50/32 A, max. CB, SCCR (UL/CSA)<br>125/70 A, Class J, max. Fuse, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>               | 125/70 A, Class J, max. Fuse, SCCR (UL/CSA)<br>10/22 kA, CB, SCCR (UL/CSA)<br>10/100 kA, Fuse, SCCR (UL/CSA)<br>50/32 A, max. CB, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V</b>   | 63 A gG/gL                                                                                                                                      |

|                                                                       |                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUITABLE FOR</b>                                                   | Also motors with efficiency class IE3                                                                                                                                                                                                                                                            |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V</b> | 50 A gG/gL                                                                                                                                                                                                                                                                                       |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V</b> | 35 A gG/gL                                                                                                                                                                                                                                                                                       |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V</b> | 35 A gG/gL                                                                                                                                                                                                                                                                                       |
| <b>SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS</b>   | 40 A (600V 60Hz 3phase, 347V 60Hz 1phase)<br>40 A (480V 60Hz 3phase, 277V 60Hz 1phase)                                                                                                                                                                                                           |
| <b>SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING</b>              | 108 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)<br>18 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)                                                                                                                                                    |
| <b>SPECIAL PURPOSE RATING OF ELEVATOR CONTROL</b>                     | 9.6 A, 240 V 60 Hz 3-ph, (UL/CSA)<br>11 A, 600 V 60 Hz 3-ph, (UL/CSA)<br>11 A, 480 V 60 Hz 3-ph, (UL/CSA)<br>11 A, 200 V 60 Hz 3-ph, (UL/CSA)<br>7.5 HP, 480 V 60 Hz 3-ph, (UL/CSA)<br>3 HP, 240 V 60 Hz 3-ph, (UL/CSA)<br>3 HP, 200 V 60 Hz 3-ph, (UL/CSA)<br>10 HP, 600 V 60 Hz 3-ph, (UL/CSA) |
| <b>SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)</b>     | 30 A, FLA 600 V 60 Hz 3phase; (CSA)<br>240 A, LRA 480 V 60 Hz 3phase; (CSA)<br>180 A, LRA 600 V 60 Hz 3phase; (CSA)<br>40 A, FLA 480 V 60 Hz 3phase; (CSA)                                                                                                                                       |
| <b>SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING</b>               | 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)<br>40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)                                                                                                                                                                                 |
| <b>SPECIAL PURPOSE RATING OF TUNGSTEN</b>                             | 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase,                                                                                                                                                                                                                                                    |

|                                                                |                                                                          |
|----------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>INCANDESCENT LAMPS</b>                                      | (UL/CSA)<br>40 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA) |
| <b>OPERATING TEMPERATURE</b>                                   | -25° to 60°C                                                             |
| <b>CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)</b> | 40 A                                                                     |
| <b>CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)</b> | 38 A                                                                     |
| <b>CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)</b> | 35 A                                                                     |
| <b>RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ</b>           | 10.5 kW                                                                  |
| <b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>           | 12 kW                                                                    |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>           | 11 kW                                                                    |
| <b>ACTUATING VOLTAGE</b>                                       | 190 V 50 Hz, 220 V 60 Hz                                                 |
| <b>ALTITUDE</b>                                                | Max. 2000 m                                                              |
| <b>OPERATING VOLTAGE AT AC, 50 HZ - MIN</b>                    | 24 V                                                                     |
| <b>OPERATING VOLTAGE AT AC, 50 HZ - MAX</b>                    | 690 V                                                                    |
| <b>OPERATING VOLTAGE AT AC, 60 HZ - MIN</b>                    | 24 V                                                                     |
| <b>OPERATING VOLTAGE AT AC, 60 HZ - MAX</b>                    | 690 V                                                                    |

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|------------------------|
| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| <b>DATE:</b>           |



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