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## Eaton 290046

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 48 V 50 Hz, AC operation, Screw terminals DILM15-10(48V50HZ)

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| <b>PRODUCT NAME</b>         | Eaton Moeller® series DILM contactor                                                                                                                                                                                       |
| <b>CATALOG NUMBER</b>       | 290046                                                                                                                                                                                                                     |
| <b>PRODUCT LENGTH/DEPTH</b> | 75 mm                                                                                                                                                                                                                      |
| <b>PRODUCT HEIGHT</b>       | 68 mm                                                                                                                                                                                                                      |
| <b>PRODUCT WIDTH</b>        | 45 mm                                                                                                                                                                                                                      |
| <b>PRODUCT WEIGHT</b>       | 0.24 kg                                                                                                                                                                                                                    |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                  |
| <b>CERTIFICATIONS</b>       | UL 508<br>VDE<br>CE<br>VDE 0660<br>UL File No.: E29096<br>CSA Class No.: 2411-03, 3211-04<br>CSA-C22.2 No. 14-05<br>UL Category Control No.: NLDX<br>CSA File No.: 012528<br>IEC/EN 60947<br>IEC/EN 60947-4-1<br>CSA<br>UL |
| <b>CATALOG NOTES</b>        | Contacts according to EN 50012                                                                                                                                                                                             |



Powering Business Worldwide

**ELECTRICAL  
CONNECTION TYPE FOR  
AUXILIARY- AND  
CONTROL-CURRENT  
CIRCUIT**

Screw connection

**AMPERAGE RATING**

15.50A

**NUMBER OF POLES**

Three-pole

**VOLTAGE RATING**

48 V

**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.

**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.

**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.

## CHARACTERISTIC CURVE

[eaton-contactors-switch-dilm-characteristic-curve-002.eps](#)

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DECLARATIONS OF  
CONFORMITY

[eaton-contactor-declaration-of-conformity-uk251209en.pdf](#)

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[eaton-contactors-dila-dilm7-15-dilmp20-il03407013z.pdf](#)

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[eaton-contactors-contact-dilm-wiring-diagram.eps](#)

[eaton-contactors-frame-dilm-dimensions.eps](#)

[eaton-contactors-module-dilm-dimensions-002.eps](#)

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[eaton-contactors-dilm-3d-drawing-007.eps](#)

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| <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 Hz                                                                                                                                                                                                                     |
| <b>OPERATING FREQUENCY</b>                                      | 5000 mechanical Operations/h (AC operated)                                                                                                                                                                                |
| <b>POLLUTION DEGREE</b>                                         | 3                                                                                                                                                                                                                         |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30                                                                                                                                            |
| <b>CONNECTION TO SMARTWIRE-DT</b>                               | No                                                                                                                                                                                                                        |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 8000 V AC                                                                                                                                                                                                                 |
| <b>UTILIZATION CATEGORY</b>                                     | AC-3: Normal AC induction motors: starting, switch off during running<br>AC-4: Normal AC induction motors: starting, plugging, reversing, inching<br>AC-1: Non-inductive or slightly inductive loads, resistance furnaces |
| <b>CONNECTION</b>                                               | Screw terminals                                                                                                                                                                                                           |
| <b>FRAME SIZE</b>                                               | FS1                                                                                                                                                                                                                       |
| <b>AMBIENT OPERATING</b>                                        | 60 °C                                                                                                                                                                                                                     |

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| <b>TEMPERATURE - MAX</b>                                                |        |
| <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>                | 1 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>                | 10 HP  |
| <b>CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)</b>              | 45 A   |
| <b>CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)</b>              | 18 A   |
| <b>CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)</b>          | 21 A   |
| <b>CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)</b> | 50 A   |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>               | 0 W    |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                                  | 0 W    |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>                | 0.5 W  |

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| <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>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,<br>Terminal screw, Standard screwdriver |
| <b>VOLTAGE TYPE</b>                                            | AC                                                                                                     |
| <b>DEGREE OF PROTECTION</b>                                    | IP20                                                                                                   |
| <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>                    | 124 A                                                                                                  |
| <b>RATED BREAKING CAPACITY AT 380/400 V</b>                    | 124 A                                                                                                  |
| <b>RATED BREAKING CAPACITY AT 500 V</b>                        | 100 A                                                                                                  |
| <b>RATED BREAKING CAPACITY AT 660/690 V</b>                    | 70 A                                                                                                   |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>    | 48 V                                                                                                   |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>    | 48 V                                                                                                   |

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| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b> | 0 V                                                                                                                                     |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 0 V                                                                                                                                     |
| <b>CONTACT CONFIGURATION</b>                                | 1 NO                                                                                                                                    |
| <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>EMITTED INTERFERENCE</b>                                 | According to EN 60947-1                                                                                                                 |
| <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>                    | 24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz                                                                       |
| <b>SAFE ISOLATION</b>                                       | 400 V AC, Between coil and contacts, According to EN 61140<br>400 V AC, Between the contacts, According to EN 61140                     |
| <b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>                    | 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz                                                                       |
| <b>SCREW SIZE</b>                                           | M3.5, Terminal screw                                                                                                                    |
| <b>POWER CONSUMPTION, SEALING, 50 HZ</b>                    | 3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz<br>1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz |
| <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 - 2.5) mm <sup>2</sup><br>2 x (0.75 - 2,5) mm <sup>2</sup>                                                                    |
| <b>SHOCK RESISTANCE</b>                                     | 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms                                     |

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|                                                                    | <p>3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms</p> <p>7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms</p> <p>3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms</p> <p>5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms</p> <p>10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms</p> |
| <b>TERMINAL CAPACITY (SOLID)</b>                                   | <p>1 x (0.75 - 4) mm<sup>2</sup></p> <p>2 x (0.75 - 2.5) mm<sup>2</sup></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>                      | Single 18 - 10, double 18 - 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>             | 20 A, Maximum motor rating (UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>TIGHTENING TORQUE</b>                                           | 1.2 Nm, Screw terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>               | 0 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>               | 0 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RATED INSULATION VOLTAGE (UI)</b>                               | 690 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)</b> | 155 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V</b> | 22 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b> | 15.5 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b> | 15.5 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RATED OPERATIONAL</b>                                           | 15.5 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <b>CURRENT (IE) AT AC-3,<br/>440 V</b>                                       |        |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                 | 12.5 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>          | 9 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>220 V, 230 V, 240 V</b>   | 7 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>400 V</b>                 | 7 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>440 V</b>                 | 7 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>500 V</b>                 | 6 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>660 V, 690 V</b>          | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>110 V</b>                 | 20 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>220 V</b>                 | 15 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1, 60<br/>V</b>                  | 20 A   |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 15.5 A |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 240 V, 50<br/>HZ</b>                 | 4.6 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>                 | 8 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 220/230<br/>V, 50 HZ</b>             | 2 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 240 V, 50<br/>HZ</b>                 | 2.2 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 380/400<br/>V, 50 HZ</b>             | 3 kW   |



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| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 415 V, 50<br/>HZ</b>                        | 3.4 kW                                                                                                |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 440 V, 50<br/>HZ</b>                        | 3.6 kW                                                                                                |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 500 V, 50<br/>HZ</b>                        | 3.5 kW                                                                                                |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 660/690<br/>V, 50 HZ</b>                    | 4.4 kW                                                                                                |
| <b>RATED OPERATIONAL<br/>POWER (NEMA)</b>                                           | 7.4 kW                                                                                                |
| <b>RATED OPERATIONAL<br/>VOLTAGE (UE) AT AC -<br/>MAX</b>                           | 690 V                                                                                                 |
| <b>RESISTANCE PER POLE</b>                                                          | 2.5 mΩ                                                                                                |
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT<br/>PVS</b>              | 1.4 W                                                                                                 |
| <b>STRIPPING LENGTH<br/>(CONTROL CIRCUIT<br/>CABLE)</b>                             | 10 mm                                                                                                 |
| <b>STRIPPING LENGTH<br/>(MAIN CABLE)</b>                                            | 10 mm                                                                                                 |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, CLOSING<br/>DELAY) - MAX</b> | 21 ms                                                                                                 |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, CLOSING<br/>DELAY) - MIN</b> | 15 ms                                                                                                 |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, OPENING<br/>DELAY) - MAX</b> | 18 ms                                                                                                 |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, OPENING<br/>DELAY) - MIN</b> | 9 ms                                                                                                  |
| <b>SHORT-CIRCUIT CURRENT<br/>RATING (BASIC RATING)</b>                              | 5 kA, 45 A max. fuse, SCCR<br>(UL/CSA)<br>5 kA, 45 A max. CB, SCCR<br>(UL/CSA)                        |
| <b>SHORT-CIRCUIT CURRENT<br/>RATING (HIGH FAULT AT<br/>480 V)</b>                   | 100 kA, 60 A CLASS J max.<br>fuse, SCCR (UL/CSA)<br>30 kA, 25 A CLASS RK5<br>max. fuse, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT<br/>RATING (HIGH FAULT AT</b>                              | 100 kA, 60 A CLASS J max.<br>fuse, SCCR (UL/CSA)                                                      |

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| <b>600 V)</b>                                                                     | 30 kA, 25 A CLASS RK5<br>max. fuse, SCCR (UL/CSA)                                                                                                                                                                                                                                                                         |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING<br/>(TYPE 1 COORDINATION)<br/>AT 400 V</b> | 63 A gG/gL                                                                                                                                                                                                                                                                                                                |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING<br/>(TYPE 1 COORDINATION)<br/>AT 690 V</b> | 50 A gG/gL                                                                                                                                                                                                                                                                                                                |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING<br/>(TYPE 2 COORDINATION)<br/>AT 400 V</b> | 20 A gG/gL                                                                                                                                                                                                                                                                                                                |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING<br/>(TYPE 2 COORDINATION)<br/>AT 690 V</b> | 20 A gG/gL                                                                                                                                                                                                                                                                                                                |
| <b>SPECIAL PURPOSE<br/>RATING OF BALLAST<br/>ELECTRICAL DISCHARGE<br/>LAMPS</b>   | 20 A (600V 60Hz 3phase,<br>347V 60Hz 1phase)<br>20 A (480V 60Hz 3phase,<br>277V 60Hz 1phase)                                                                                                                                                                                                                              |
| <b>SPECIAL PURPOSE<br/>RATING OF DEFINITE<br/>PURPOSE RATING</b>                  | 90 A, LRA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>15 A, FLA 480 V 60 Hz 3-ph,<br>100,000 cycles acc. to UL<br>1995, (UL/CSA)                                                                                                                                                                 |
| <b>SPECIAL PURPOSE<br/>RATING OF ELEVATOR<br/>CONTROL</b>                         | 9.6 A, 240 V 60 Hz 3-ph,<br>(UL/CSA)<br>7.8 A, 200 V 60 Hz 3-ph,<br>(UL/CSA)<br>3 HP, 240 V 60 Hz 3-ph,<br>(UL/CSA)<br>2 HP, 200 V 60 Hz 3-ph,<br>(UL/CSA)<br>9 A, 600 V 60 Hz 3-ph,<br>(UL/CSA)<br>11 A, 480 V 60 Hz 3-ph,<br>(UL/CSA)<br>7.5 HP, 480 V 60 Hz 3-ph,<br>(UL/CSA)<br>7.5 HP, 600 V 60 Hz 3-ph,<br>(UL/CSA) |
| <b>SPECIAL PURPOSE<br/>RATING OF<br/>REFRIGERATION<br/>CONTROL (CSA ONLY)</b>     | 10 A, FLA 480 V 60 Hz<br>3phase; (CSA)<br>10 A, FLA 600 V 60 Hz<br>3phase; (CSA)<br>60 A, LRA 480 V 60 Hz<br>3phase; (CSA)<br>60 A, LRA 600 V 60 Hz<br>3phase; (CSA)                                                                                                                                                      |
| <b>SPECIAL PURPOSE<br/>RATING OF RESISTANCE<br/>AIR HEATING</b>                   | 20 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA)<br>20 A, 600 V 60 Hz 3phase,                                                                                                                                                                                                                                 |

|                                                               |                                                                                                                              |
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|                                                               | 347 V 60 Hz 1phase,<br>(UL/CSA)                                                                                              |
| SPECIAL PURPOSE<br>RATING OF TUNGSTEN<br>INCANDESCENT LAMPS   | 14 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA)<br>14 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA) |
| OPERATING<br>TEMPERATURE                                      | -25° to 60°C                                                                                                                 |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 40°C (3-POLE, OPEN) | 22 A                                                                                                                         |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 50°C (3-POLE, OPEN) | 21 A                                                                                                                         |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 60°C (3-POLE, OPEN) | 20 A                                                                                                                         |
| RATED OPERATIONAL<br>POWER AT AC-3, 440 V, 50<br>HZ           | 8.4 kW                                                                                                                       |
| RATED OPERATIONAL<br>POWER AT AC-3, 500 V, 50<br>HZ           | 7.5 kW                                                                                                                       |
| RATED OPERATIONAL<br>POWER AT AC-3, 690 V, 50<br>HZ           | 7 kW                                                                                                                         |
| ACTUATING VOLTAGE                                             | 48 V 50 Hz                                                                                                                   |
| ALTITUDE                                                      | Max. 2000 m                                                                                                                  |
| OPERATING VOLTAGE AT<br>AC, 50 HZ - MIN                       | 24 V                                                                                                                         |
| OPERATING VOLTAGE AT<br>AC, 50 HZ - MAX                       | 690 V                                                                                                                        |
| OPERATING VOLTAGE AT<br>AC, 60 HZ - MIN                       | 24 V                                                                                                                         |
| OPERATING VOLTAGE AT<br>AC, 60 HZ - MAX                       | 690 V                                                                                                                        |
| PROJECT NAME:                                                 |                                                                                                                              |
| PROJECT NUMBER:                                               |                                                                                                                              |
| PREPARED BY:                                                  |                                                                                                                              |
| □□:                                                           |                                                                                                                              |