

# Specifications

Photo is representative

## Eaton 290077

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 220 V DC, DC operation, Screw terminals

### General specifications

|                             |                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series<br>DILM contactor                                                                                                                                                                                          |
| <b>CATALOG NUMBER</b>       | 290077                                                                                                                                                                                                                           |
| <b>MODEL CODE</b>           | DILM15-10(220VDC)                                                                                                                                                                                                                |
| <b>EAN</b>                  | 4015082900779                                                                                                                                                                                                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 75 mm                                                                                                                                                                                                                            |
| <b>PRODUCT HEIGHT</b>       | 68 mm                                                                                                                                                                                                                            |
| <b>PRODUCT WIDTH</b>        | 45 mm                                                                                                                                                                                                                            |
| <b>PRODUCT WEIGHT</b>       | 0.296 kg                                                                                                                                                                                                                         |
| <b>CERTIFICATIONS</b>       | VDE 0660<br>CE<br>UL 508<br>CSA<br>CSA Class No.: 2411-03,<br>3211-04<br>CSA File No.: 012528<br>IEC/EN 60947<br>IEC/EN 60947-4-1<br>UL<br>UL Category Control No.:<br>NLDX<br>UL File No.: E29096<br>CSA-C22.2 No. 14-05<br>VDE |
| <b>CATALOG NOTES</b>        | Contacts according to EN<br>50012                                                                                                                                                                                                |
| <b>GLOBAL CATALOG</b>       | 290077                                                                                                                                                                                                                           |

## Product specifications

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

Screw connection

### NUMBER OF POLES

Three-pole

### 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.

## Resources

[SmartWire-DT Catalog](#)

### CATALOGS

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[Product Range Catalog Switching and protecting motors](#)

### CHARACTERISTIC CURVE

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

[eaton-contactors-short-time-loading-dilm-characteristic-curve.eps](#)

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

[eaton-contactors-component-dilm-characteristic-curve-003.eps](#)

### DECLARATIONS OF CONFORMITY

[DA-DC-00004792.pdf](#)

[DA-DC-00004810.pdf](#)

### DRAWINGS

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

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

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

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

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

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

### ECAD MODEL

[ETN.290077.edz](#)

### INSTALLATION INSTRUCTIONS

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

### INSTALLATION VIDEOS

[WIN-WIN with push-in technology](#)

### MCAD MODEL

[DA-CS-dil m7 15](#)

|                                                                 |                                                                                                                                                                                                                           |
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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>FITTED WITH:</b>                                             | Varistor suppressor circuit                                                                                                                                                                                               |
| <b>OPERATING FREQUENCY</b>                                      | 5000 mechanical Operations/h (DC 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                                                                                                                                                                                                           |

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|------------------------|---------------------------------------------------------------------|
|                        | <a href="#">DA-CD-dil_m7_15</a>                                     |
| <b>SYSTEM OVERVIEW</b> | <a href="#">eaton-contactors-dilm-contactor-system-overview.eps</a> |
| <b>WIRING DIAGRAMS</b> | <a href="#">eaton-contactors-contact-dilm-wiring-diagram.eps</a>    |

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|-------------------------------------------------------------------------|--------|
| <b>FRAME SIZE</b>                                                       | FS1    |
| <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>                | 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>               | 2.4 W  |

|                                                                         |                                                                                                      |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                                  | 0 W                                                                                                  |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>                | 0.8 W                                                                                                |
| <b>SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b> | 31 ms                                                                                                |
| <b>SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX</b> | 12 ms                                                                                                |
| <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, Terminal screw, Standard screwdriver  |
| <b>VOLTAGE TYPE</b>                                                     | DC                                                                                                   |
| <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>POWER CONSUMPTION (PICK-UP) AT DC</b>                                | 4.5 W                                                                                                |
| <b>POWER CONSUMPTION</b>                                                | 4.5 W                                                                                                |

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| <b>(SEALING) AT DC</b>                                      |                                                                                                                     |
| <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> | 0 V                                                                                                                 |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b> | 0 V                                                                                                                 |
| <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>DROP-OUT VOLTAGE</b>                                     | At least smoothed two-phase bridge rectifier or three-phase rectifier<br>0.6 - 0.15 x UC, DC 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 (DC operated)                                                                                 |
| <b>PICK-UP VOLTAGE</b>                                      | 0.85 - 1.1 V DC x Uc (only with auxiliary contact module with 3 or more N/C contacts)<br>0.8 - 1.1 V DC x Uc        |
| <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>SCREW SIZE</b>                                           | M3.5, Terminal screw                                                                                                |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b> | 10 A, 600 V AC, (UL/CSA)<br>1 A, 250 V DC, (UL/CSA)                                                                 |

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| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>PILOT DUTY)</b> | P300, DC operated<br>(UL/CSA)<br>A600, AC operated<br>(UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>TERMINAL CAPACITY<br/>(FLEXIBLE WITH<br/>FERRULE)</b>           | 2 x (0.75 - 2.5) mm <sup>2</sup><br>1 x (0.75 - 2.5) mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>SHOCK RESISTANCE</b>                                            | <p>5 g, N/C auxiliary contact,<br/>Mechanical, according to<br/>IEC/EN 60068-2-27, Half-<br/>sinusoidal shock 10 ms</p> <p>10 g, N/O main contact,<br/>Mechanical, according to<br/>IEC/EN 60068-2-27, Half-<br/>sinusoidal shock 10 ms</p> <p>3.4 g, N/O auxiliary<br/>contact, Mechanical,<br/>according to IEC/EN<br/>60068-2-27 when tabletop-<br/>mounted, Half-sinusoidal<br/>shock 10 ms</p> <p>3.4 g, N/C auxiliary<br/>contact, Mechanical,<br/>according to IEC/EN<br/>60068-2-27 when tabletop-<br/>mounted, Half-sinusoidal<br/>shock 10 ms</p> <p>7 g, N/O auxiliary contact,<br/>Mechanical, according to<br/>IEC/EN 60068-2-27, Half-<br/>sinusoidal shock 10 ms</p> <p>5.7 g, N/O main contact,<br/>Mechanical, according to<br/>IEC/EN 60068-2-27 when<br/>tabletop-mounted, Half-<br/>sinusoidal shock 10 ms</p> |
| <b>TERMINAL CAPACITY<br/>(SOLID)</b>                               | 2 x (0.75 - 2.5) mm <sup>2</sup><br>1 x (0.75 - 4) mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>TERMINAL CAPACITY<br/>(SOLID/STRANDED AWG)</b>                  | Single 18 - 10, double 18 -<br>14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SWITCHING CAPACITY<br/>(MAIN CONTACTS,<br/>GENERAL USE)</b>     | 20 A, Maximum motor<br>rating (UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>TIGHTENING TORQUE</b>                                           | 1.2 Nm, Screw terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MAX</b>       | 220 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MIN</b>       | 220 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RATED INSULATION<br/>VOLTAGE (UI)</b>                           | 690 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RATED MAKING</b>                                                | 155 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|------------------------------------------------------------------------------|--------|
| <b>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN 60947)</b>                    |        |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-1,<br/>380 V, 400 V, 415 V</b>   | 22 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>   | 15.5 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>   | 15.5 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>440 V</b>                 | 15.5 A |
| <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</b>                        | 4.6 kW |



|                                                           |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>HZ</b>                                                 |                                                                                       |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>  | 7.5 kW                                                                                |
| <b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>      | 8 kW                                                                                  |
| <b>RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ</b>  | 2 kW                                                                                  |
| <b>RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ</b>      | 2.2 kW                                                                                |
| <b>RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ</b>  | 3 kW                                                                                  |
| <b>RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ</b>      | 3.4 kW                                                                                |
| <b>RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ</b>      | 3.6 kW                                                                                |
| <b>RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ</b>      | 3.5 kW                                                                                |
| <b>RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ</b>  | 4.4 kW                                                                                |
| <b>RATED OPERATIONAL POWER (NEMA)</b>                     | 7.4 kW                                                                                |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>         | 690 V                                                                                 |
| <b>RESISTANCE PER POLE</b>                                | 4.6 mΩ                                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b> | 4.5 W                                                                                 |
| <b>STRIPPING LENGTH (CONTROL CIRCUIT CABLE)</b>           | 10 mm                                                                                 |
| <b>STRIPPING LENGTH (MAIN CABLE)</b>                      | 10 mm                                                                                 |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>        | 45 A, max. Fuse, SCCR (UL/CSA)<br>5 kA, SCCR (UL/CSA)<br>60 A, max. CB, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT</b>        | 25 A, Class RK5/ 60 A Class J, max. Fuse, SCCR                                        |

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

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|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>CONTROL (CSA ONLY)</b>                                              | 3phase; (CSA)<br>10 A, FLA 600 V 60 Hz<br>3phase; (CSA)<br>10 A, FLA 480 V 60 Hz<br>3phase; (CSA)                            |
| <b>SPECIAL PURPOSE<br/>RATING OF RESISTANCE<br/>AIR HEATING</b>        | 20 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA)<br>20 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA) |
| <b>SPECIAL PURPOSE<br/>RATING OF TUNGSTEN<br/>INCANDESCENT LAMPS</b>   | 14 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA)<br>14 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA) |
| <b>CONVENTIONAL<br/>THERMAL CURRENT ITH<br/>AT 40°C (3-POLE, OPEN)</b> | 22 A                                                                                                                         |
| <b>CONVENTIONAL<br/>THERMAL CURRENT ITH<br/>AT 50°C (3-POLE, OPEN)</b> | 21 A                                                                                                                         |
| <b>CONVENTIONAL<br/>THERMAL CURRENT ITH<br/>AT 60°C (3-POLE, OPEN)</b> | 20 A                                                                                                                         |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 440 V, 50<br/>HZ</b>           | 8.4 kW                                                                                                                       |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 500 V, 50<br/>HZ</b>           | 7.5 kW                                                                                                                       |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 690 V, 50<br/>HZ</b>           | 7 kW                                                                                                                         |
| <b>ACTUATING VOLTAGE</b>                                               | 220 V DC                                                                                                                     |
| <b>ALTITUDE</b>                                                        | Max. 2000 m                                                                                                                  |
| <b>OPERATING VOLTAGE AT<br/>AC, 50 HZ - MIN</b>                        | 24 V                                                                                                                         |
| <b>OPERATING VOLTAGE AT<br/>AC, 50 HZ - MAX</b>                        | 690 V                                                                                                                        |
| <b>OPERATING VOLTAGE AT<br/>AC, 60 HZ - MIN</b>                        | 24 V                                                                                                                         |
| <b>OPERATING VOLTAGE AT<br/>AC, 60 HZ - MAX</b>                        | 690 V                                                                                                                        |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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