

# Eaton 199221

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 3 kW, 1 N/O, 24 V 50/60 Hz, AC operation, Push in terminals

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| PRODUCT NAME         | Eaton Moeller® series DILM contactor                                                                                                                                                    |
| CATALOG NUMBER       | 199221                                                                                                                                                                                  |
| PRODUCT LENGTH/DEPTH | 75 mm                                                                                                                                                                                   |
| PRODUCT HEIGHT       | 68 mm                                                                                                                                                                                   |
| PRODUCT WIDTH        | 45 mm                                                                                                                                                                                   |
| PRODUCT WEIGHT       | 0.225 kg                                                                                                                                                                                |
| CERTIFICATIONS       | IEC/EN 60947<br>VDE 0660<br>UL Listed<br>CSA certified<br>UL Category Control No.: NLDX<br>CE marking<br>UL File No.: E29096<br>CSA Class No.: 2411-03, 3211-04<br>CSA File No.: 012528 |
| CATALOG NOTES        | Also tested according to AC-3e.                                                                                                                                                         |

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| <b>NUMBER OF POLES</b>                                                                  | Three-pole                                                                                                                       |
| <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 ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product 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</b>                                                     | Does not apply, since the entire switchgear needs to                                                                             |

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| <b>MCAD MODEL</b> | <a href="#">eaton-iec-contactors-mcad-3d-models-dil-m7-15-pi.stp</a> |
|                   | <a href="#">dil_m7_15_pi.dwg</a>                                     |
|                   | <a href="#">eaton-contactors-dimensions-007.eps</a>                  |

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| <b>ASSEMBLIES</b>                                               | 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>OPERATING FREQUENCY</b>                                      | 9000 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>                   | 6000 V AC                                                                                                                                                                                                                 |
| <b>UTILIZATION CATEGORY</b>                                     | AC-1: Non-inductive or slightly inductive loads, resistance furnaces<br>AC-3: Normal AC induction motors: starting, switch off during running<br>AC-4: Normal AC induction motors: starting, plugging, reversing, inching |
| <b>CONNECTION</b>                                               | Push in terminals                                                                                                                                                                                                         |
| <b>FRAME SIZE</b>                                               | FS1                                                                                                                                                                                                                       |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 60 °C                                                                                                                                                                                                                     |
| <b>AMBIENT OPERATING</b>                                        | -25 °C                                                                                                                                                                                                                    |

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| <b>TEMPERATURE - MIN</b>                                                |                                                                       |
| <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>                | 0.25 HP                                                               |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>                | 1.5 HP                                                                |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>                | 1 HP                                                                  |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>                | 2 HP                                                                  |
| <b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>                | 3 HP                                                                  |
| <b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>                | 5 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>HEAT DISSIPATION CAPACITY PDISS</b>                                  | 0 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 |

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|                                                                | actuated from front (EN 50274)                             |
| <b>ARCING TIME</b>                                             | 10 ms                                                      |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>              | Push-in connection                                         |
| <b>SCREWDRIVER SIZE</b>                                        | 3.0 x 0.5 mm, Terminal screw<br>3 x 0.5 mm, Terminal screw |
| <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>RATED BREAKING CAPACITY AT 220/230 V</b>                    | 70 A                                                       |
| <b>RATED BREAKING CAPACITY AT 380/400 V</b>                    | 70 A                                                       |
| <b>RATED BREAKING CAPACITY AT 500 V</b>                        | 50 A                                                       |
| <b>RATED BREAKING CAPACITY AT 660/690 V</b>                    | 40 A                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>    | 24 V                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>    | 24 V                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>    | 24 V                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>    | 24 V                                                       |
| <b>OVERVOLTAGE CATEGORY</b>                                    | III                                                        |

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| <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 U <sub>c</sub>                                                                                                                                                                                                                                                                                          |
| <b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>                             | 27 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub>                                                                                                                                                                                                                                                      |
| <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>                             | 25 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub>                                                                                                                                                                                                                                                      |
| <b>POWER CONSUMPTION, SEALING, 50 HZ</b>                             | 1.4 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br>1.2 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub>                                                                                                                                                                               |
| <b>POWER CONSUMPTION, SEALING, 60 HZ</b>                             | 1.2 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br><br>4.2 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz<br>1.4 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br><br>3.3 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)</b>          | 1 x (0.5 - 2.5) mm <sup>2</sup><br>2 x (0.5 - 2.5) mm <sup>2</sup>                                                                                                                                                                                                                                                       |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)</b> | 1 x (0.5 - 2.5) mm <sup>2</sup><br>2 x (0.5 - 2.5) mm <sup>2</sup>                                                                                                                                                                                                                                                       |
| <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>           | A600, AC operated (UL/CSA)<br>P300, DC operated (UL/CSA)                                                                                                                                                                                                                                                                 |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>                     | 1 x (0.5 - 2.5) mm <sup>2</sup><br>2 x (0.5 - 1.5) mm <sup>2</sup>                                                                                                                                                                                                                                                       |

**SHOCK RESISTANCE**

3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms  
5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms  
5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms  
10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms  
3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms  
7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

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| <b>TERMINAL CAPACITY (SOLID)</b> | 1 x (0.5 - 2.5) mm <sup>2</sup><br>2 x (0.5 - 2.5) mm <sup>2</sup> |
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| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b> | 20 - 14 |
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| <b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b> | 20 A, Maximum motor rating (UL/CSA) |
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| <b>TERMINAL CAPACITY (FLEXIBLE)</b> | 2 x (0.5 - 2.5) mm <sup>2</sup><br>1 x (0.5 - 2.5) mm <sup>2</sup> |
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| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b> | 0 V |
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| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b> | 0 V |
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| <b>RATED INSULATION VOLTAGE (UI)</b> | 690 V |
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| <b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)</b> | 112 A |
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| <b>RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V</b> | 22 A |
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| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b> | 7 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b> | 7 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>440 V</b>               | 7 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>               | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>        | 4 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>220 V, 230 V, 240 V</b> | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>400 V</b>               | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>440 V</b>               | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>500 V</b>               | 4.5 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>660 V, 690 V</b>        | 4 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/>POWER AT AC-3, 240 V, 50<br/>HZ</b>               | 2.2 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>           | 3 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>               | 4 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 220/230</b>                        | 1 kW   |

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| <b>V, 50 HZ</b>                                                         |                                                                          |
| <b>RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ</b>                    | 1.5 kW                                                                   |
| <b>RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ</b>                | 2.2 kW                                                                   |
| <b>RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ</b>                    | 2.3 kW                                                                   |
| <b>RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ</b>                    | 2.4 kW                                                                   |
| <b>RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ</b>                    | 2.5 kW                                                                   |
| <b>RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ</b>                | 2.9 kW                                                                   |
| <b>RATED OPERATIONAL POWER (NEMA)</b>                                   | 0 kW                                                                     |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>                       | 690 V                                                                    |
| <b>RESISTANCE PER POLE</b>                                              | 2.5 mΩ                                                                   |
| <b>STRIPPING LENGTH (MAIN CABLE)</b>                                    | 10 mm                                                                    |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b> | 21 ms                                                                    |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b> | 15 ms                                                                    |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX</b> | 18 ms                                                                    |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN</b> | 9 ms                                                                     |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>                      | 5 kA, 25 A max. fuse, SCCR (UL/CSA)<br>5 kA, 25 A max. CB, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b>               | 100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA)<br>30 kA, 25 A CLASS RK5   |

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|                                                                       | max. fuse, SCCR (UL/CSA)<br>65 kA, 16 A max. CB, SCCR (UL/CSA)                                                                                                                                                                                                                                      |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>             | 100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA)<br>30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)                                                                                                                                                                                                     |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V</b> | 35 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> | 20 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> | 16 A gG/gL                                                                                                                                                                                                                                                                                          |
| <b>SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS</b>   | 12 A (480V 60Hz 3phase, 277V 60Hz 1phase)<br>12 A (600V 60Hz 3phase, 347V 60Hz 1phase)                                                                                                                                                                                                              |
| <b>SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING</b>              | 42 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)<br>7 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>                     | 0.75 HP, 200 V 60 Hz 3-ph, (UL/CSA)<br>1.5 HP, 240 V 60 Hz 3-ph, (UL/CSA)<br>2 HP, 480 V 60 Hz 3-ph, (UL/CSA)<br>3.9 A, 600 V 60 Hz 3-ph, (UL/CSA)<br>6 A, 240 V 60 Hz 3-ph, (UL/CSA)<br>3.4 A, 480 V 60 Hz 3-ph, (UL/CSA)<br>3.7 A, 200 V 60 Hz 3-ph, (UL/CSA)<br>3 HP, 600 V 60 Hz 3-ph, (UL/CSA) |
| <b>SPECIAL PURPOSE RATING OF</b>                                      | 10 A, FLA 480 V 60 Hz 3phase; (CSA)                                                                                                                                                                                                                                                                 |

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| <b>REFRIGERATION<br/>CONTROL (CSA ONLY)</b>                          | 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>      | 12 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA)<br>12 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA) |
| <b>SPECIAL PURPOSE<br/>RATING OF TUNGSTEN<br/>INCANDESCENT LAMPS</b> | 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) |
| <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                                                                                                                        |

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