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## Eaton 239599

Eaton Moeller® series DILM Contactor, 380 V 400 V 75 kW, 2 N/O, 2 NC, RAC 440: 380 - 440 V 50/60 Hz, AC operation, Screw terminals

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| <b>PRODUCT NAME</b>         | Eaton Moeller® series DILM contactor  |
| <b>CATALOG NUMBER</b>       | 239599  |
| <b>PRODUCT LENGTH/DEPTH</b> | 175 mm  |
| <b>PRODUCT HEIGHT</b>       | 170 mm  |
| <b>PRODUCT WIDTH</b>        | 90 mm   |
| <b>PRODUCT WEIGHT</b>       | 2.31 kg   |
| <b>COMPLIANCES</b>          | CE Marked   |
| <b>CERTIFICATIONS</b>       | UL 508<br>CSA Std. C22.2 No. 14-05<br>EN 60947-4-1<br>IEC 60947-4-1<br>VDE<br>CSA-C22.2 No. 14-05<br>IEC/EN 60947<br>VDE 0660<br>CE<br>CSA Class No.: 2411-03, 3211-04<br>UL<br>IEC/EN 60947-4-1<br>UL Category Control No.: NLDX<br>CSA File No.: 012528<br>UL File No.: E29096<br>CSA |
| <b>CATALOG NOTES</b>        | Contacts according to EN 50012  |

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

Screw connection

**AMPERAGE RATING**

150A

**NUMBER OF POLES**

Three-pole

**VOLTAGE RATING**

380-440 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](#)

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

## DECLARATIONS OF CONFORMITY

[eaton-contactor-declaration-of-conformity-uk251232en.pdf](#)

## MCAD MODEL

[dil\\_m80\\_150\\_22.stp](#)

[dil\\_m80\\_150\\_22.dwg](#)

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[eaton-dil-contactors-instruction-leaflet-il03407039z.pdf](#)

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[eaton-contactors-dilm-dimensions-003.eps](#)

[eaton-contactors-dilm-3d-drawing.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>FITTED WITH:</b>   | Suppressor circuit in actuating electronics<br>Mirror contact   |
| <b>FREQUENCY RATING</b>   | 50-60 Hz  |
| <b>OPERATING FREQUENCY</b>                                      | 3600 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>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 8000 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>   | Screw terminals   |
| <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>                | 10 HP  |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>                | 50 HP  |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>                | 30 HP  |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>                | 60 HP  |
| <b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>                | 125 HP |
| <b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>                | 125 HP |
| <b>CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)</b>              | 360 A  |
| <b>CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)</b>              | 144 A  |
| <b>CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)</b>          | 170 A  |
| <b>CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)</b> | 400 A  |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>               | 27 W   |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                                  | 0 W    |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>                | 9 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>   | 15 ms   |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>              | Screw connection  |
| <b>SCREWDRIVER SIZE</b>  | 2, Terminal screw, Control circuit cables, Pozidriv screwdriver<br>0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver |
| <b>VOLTAGE TYPE</b>  | AC  |
| <b>DEGREE OF PROTECTION</b>                                    | IP00  |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 2   |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 2   |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>           | 2   |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT</b>    | 0   |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>             | 2   |
| <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>                    | 1500 A  |
| <b>RATED BREAKING CAPACITY AT 380/400 V</b>                    | 1500 A  |
| <b>RATED BREAKING CAPACITY AT 500 V</b>                        | 1500 A  |
| <b>RATED BREAKING CAPACITY AT 660/690 V</b>                    | 1200 A  |
| <b>RATED CONTROL SUPPLY</b>                                    | 440 V   |

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| <b>VOLTAGE (US) AT AC, 50 HZ - MAX</b>                      |   |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b> | 380 V   |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b> | 440 V   |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 380 V   |
| <b>CONTACT CONFIGURATION</b>                                | 2 NO, 2 NC  |
| <b>DROP-OUT VOLTAGE</b>                                     | AC operated: 0.6 - 0.25 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 - 1.15 V AC x Uc  |
| <b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>                    | 180 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz  |
| <b>SAFE ISOLATION</b>                                       | 690 V AC, Between the contacts, According to EN 61140<br>690 V AC, Between coil and contacts, According to EN 61140                                   |
| <b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>                    | 170 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz  |
| <b>RESIDUAL CURRENT</b>                                     | 1 mA (with actuation of A1 - A2 by the electronics with "0" signal)   |
| <b>SCREW SIZE</b>   | M3.5, Terminal screw, Control circuit cables<br>5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables<br>M10, Terminal screw, Main cables |
| <b>POWER CONSUMPTION, SEALING, 50 HZ</b>                    | 2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz<br>3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz               |

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| <b>POWER CONSUMPTION,<br/>SEALING, 60 HZ</b>                        | 2.3 W, Dual-frequency coil<br>in a cold state and 1.0 x<br>Us, at 60 Hz<br>3.1 VA, Dual-frequency coil<br>in a cold state and 1.0 x<br>Us, at 60 Hz   |
| <b>TERMINAL CAPACITY<br/>(STRANDED)</b>                             | 1 x (16 - 95) mm <sup>2</sup> , Main<br>cables<br>2 x (16 - 70) mm <sup>2</sup> , Main<br>cables  |
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>GENERAL USE)</b> | 15 A, 600 V AC, (UL/CSA)<br>1 A, 250 V DC, (UL/CSA)   |
| <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/>(COPPER BAND)</b>                          | 2 x (6 x 16 x 0.8) mm<br>(Number of segments x<br>width x thickness), Main<br>cables  |
| <b>TERMINAL CAPACITY<br/>(FLEXIBLE WITH<br/>FERRULE)</b>            | 1 x (0.75 - 4) mm <sup>2</sup> , Control<br>circuit cables<br>2 x (0.75 - 2.5) mm <sup>2</sup> ,<br>Control circuit cables<br>1 x (10 - 95) mm <sup>2</sup> , Main<br>cables<br>2 x (10 - 70) mm <sup>2</sup> , Main<br>cables  |
| <b>SHOCK RESISTANCE</b>   | 5 g, N/C auxiliary contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27 when<br>tabletop-mounted, Half-<br>sinusoidal shock 10 ms<br>10 g, N/O main contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27, Half-<br>sinusoidal shock 10 ms<br>7 g, N/O auxiliary contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27 when<br>tabletop-mounted, Half-<br>sinusoidal shock 10 ms<br>10 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<br>7 g, N/O auxiliary contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27, Half-<br>sinusoidal shock 10 ms<br>5 g, N/C auxiliary contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27, Half-<br>sinusoidal shock 10 ms |
| <b>TERMINAL CAPACITY</b>  | 2 x (0.75 - 2.5) mm <sup>2</sup> ,  |

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| <b>(SOLID)</b>   | Control circuit cables<br>1 x (0.75 - 2.5) mm²,<br>Control circuit cables                    |
| <b>TERMINAL CAPACITY<br/>(SOLID/STRANDED AWG)</b>                              | Single 8...3/0, double<br>8...2/0, Main cables<br>18 - 14, Control circuit<br>cables         |
| <b>SWITCHING CAPACITY<br/>(MAIN CONTACTS,<br/>GENERAL USE)</b>                 | 225 A, Maximum motor<br>rating (UL/CSA)  |
| <b>TIGHTENING TORQUE</b>   | 1.2 Nm, Screw terminals,<br>Control circuit cables<br>14 Nm, Screw terminals,<br>Main cables |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MAX</b>                   | 0 V  |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MIN</b>                   | 0 V  |
| <b>RATED INSULATION<br/>VOLTAGE (UI)</b>                                       | 690 V  |
| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN<br/>60947)</b> | 2100 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-1,<br/>380 V, 400 V, 415 V</b>     | 190 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>     | 150 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>     | 150 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>440 V</b>                   | 150 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                   | 150 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>            | 100 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>220 V, 230 V, 240 V</b>     | 65 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>400 V</b>                   | 65 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>440 V</b>                   | 65 A   |



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| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>500 V</b>                 | 65 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-4,<br/>660 V, 690 V</b>          | 50 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>110 V</b>                 | 160 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>220 V</b>                 | 90 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1, 60<br/>V</b>                  | 160 A |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 150 A |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 240 V, 50<br/>HZ</b>                 | 52 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>             | 75 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>                 | 91 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 220/230<br/>V, 50 HZ</b>             | 20 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 240 V, 50<br/>HZ</b>                 | 22 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 380/400<br/>V, 50 HZ</b>             | 33 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 415 V, 50<br/>HZ</b>                 | 39 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 440 V, 50<br/>HZ</b>                 | 41 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 500 V, 50<br/>HZ</b>                 | 47 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 660/690<br/>V, 50 HZ</b>             | 48 kW |
| <b>RATED OPERATIONAL<br/>POWER (NEMA)</b>                                    | 93 kW |
| <b>RATED OPERATIONAL<br/>VOLTAGE (UE) AT AC -<br/>MAX</b>                    | 690 V |

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| <b>RESISTANCE PER POLE</b>  | 0.6 mΩ   |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>               | 2.3 W  |
| <b>STRIPPING LENGTH (CONTROL CIRCUIT CABLE)</b>                         | 10 mm  |
| <b>STRIPPING LENGTH (MAIN CABLE)</b>                                    | 24 mm  |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b> | 33 ms  |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b> | 28 ms  |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX</b> | 41 ms  |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN</b> | 35 ms  |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>                      | 10 kA, 600 A max. fuse, SCCR (UL/CSA)<br>10 kA, 600 A max. CB, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b>               | 100 kA, 600 A CLASS J max. fuse, SCCR (UL/CSA)                               |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>               | 100 kA, 600 A CLASS J max. fuse, SCCR (UL/CSA)                               |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V</b>   | 250 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>   | 250 A gG/gL  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V</b>   | 250 A gG/gL  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V</b>   | 250 A gG/gL  |

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| <b>SPECIAL PURPOSE<br/>RATING OF BALLAST<br/>ELECTRICAL DISCHARGE<br/>LAMPS</b> | 160 A (480V 60Hz 3phase,<br>277V 60Hz 1phase)<br>160 A (600V 60Hz 3phase,<br>347V 60Hz 1phase)   |
| <b>SPECIAL PURPOSE<br/>RATING OF DEFINITE<br/>PURPOSE RATING</b>                | 900 A, LRA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>150 A, FLA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)   |
| <b>SPECIAL PURPOSE<br/>RATING OF ELEVATOR<br/>CONTROL</b>                       | 96 A, 480 V 60 Hz 3-ph,<br>(UL/CSA)<br>30 HP, 200 V 60 Hz 3-ph,<br>(UL/CSA)<br>92 A, 200 V 60 Hz 3-ph,<br>(UL/CSA)<br>104 A, 240 V 60 Hz 3-ph,<br>(UL/CSA)<br>100 HP, 600 V 60 Hz 3-ph,<br>(UL/CSA)<br>99 A, 600 V 60 Hz 3-ph,<br>(UL/CSA)<br>40 HP, 240 V 60 Hz 3-ph,<br>(UL/CSA)<br>75 HP, 480 V 60 Hz 3-ph,<br>(UL/CSA) |
| <b>SPECIAL PURPOSE<br/>RATING OF<br/>REFRIGERATION<br/>CONTROL (CSA ONLY)</b>   | 540 A, LRA 600 V 60 Hz<br>3phase; (CSA)<br>90 A, FLA 600 V 60 Hz<br>3phase; (CSA)<br>540 A, LRA 480 V 60 Hz<br>3phase; (CSA)<br>90 A, FLA 480 V 60 Hz<br>3phase; (CSA)   |
| <b>SPECIAL PURPOSE<br/>RATING OF RESISTANCE<br/>AIR HEATING</b>                 | 160 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA)<br>160 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>            | 160 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA)<br>160 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA)   |
| <b>OPERATING<br/>TEMPERATURE</b>  | -25° to 60°C   |
| <b>CONVENTIONAL<br/>THERMAL CURRENT ITH<br/>AT 40°C (3-POLE, OPEN)</b>          | 190 A  |
| <b>CONVENTIONAL<br/>THERMAL CURRENT ITH<br/>AT 50°C (3-POLE, OPEN)</b>          | 180 A  |
| <b>CONVENTIONAL<br/>THERMAL CURRENT ITH</b>                                     | 160 A  |

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| AT 60°C (3-POLE, OPEN)                              |                                  |
| RATED OPERATIONAL<br>POWER AT AC-3, 440 V, 50<br>HZ | 95 kW                            |
| RATED OPERATIONAL<br>POWER AT AC-3, 500 V, 50<br>HZ | 110 kW                           |
| RATED OPERATIONAL<br>POWER AT AC-3, 690 V, 50<br>HZ | 96 kW                            |
| ACTUATING VOLTAGE                                   | RAC 440: 380 - 440 V 50/60<br>Hz |
| ALTITUDE  | Max. 2000 m                      |
| OPERATING VOLTAGE AT<br>AC, 50 HZ - MIN             | 230 V                            |
| OPERATING VOLTAGE AT<br>AC, 50 HZ - MAX             | 690 V                            |
| OPERATING VOLTAGE AT<br>AC, 60 HZ - MIN             | 230 V                            |
| OPERATING VOLTAGE AT<br>AC, 60 HZ - MAX             | 690 V                            |

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| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
|                 |



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