## Specifications



## Photo is representative





## Eaton 277598

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, RDC 240: 200 - 240 V DC, DC operation, Spring-loaded terminals

| General specification   | S                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT NAME            | Eaton Moeller® series<br>DILM contactor                                                                                                                                                         |
| CATALOG NUMBER          | 277598                                                                                                                                                                                          |
| MODEL CODE              | DILMC17-10(RDC240)                                                                                                                                                                              |
| EAN                     | 4015082775988                                                                                                                                                                                   |
| PRODUCT<br>LENGTH/DEPTH | 97 mm                                                                                                                                                                                           |
| PRODUCT HEIGHT          | 85 mm                                                                                                                                                                                           |
| PRODUCT WIDTH           | 45 mm                                                                                                                                                                                           |
| PRODUCT WEIGHT          | 0.543 kg                                                                                                                                                                                        |
| CERTIFICATIONS          | IEC/EN 60947 CE IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA File No.: 012528 UL UL 60947-4-1 CSA VDE 0660 CSA Class No.: 2411-03, 3211-04 UL File No.: E29096 CSA-C22.2 No. 60947-4-1-14 |
| CATALOG NOTES           | Contacts according to EN 50012                                                                                                                                                                  |
| GLOBAL CATALOG          | 277598                                                                                                                                                                                          |



| NUMBER OF POLESThree-pole10.10 TEMPERATURE RISEThe panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.10.11 SHORT-CIRCUIT RATINGIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 ELECTROMAGNETIC COMPATIBILITYIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 MECHANICAL FUNCTIONThe device meets the requirements, provided the information in the instruction leaflet (IL) is observed.10.2.2 CORROSION RESISTANCEMeets the product standard's requirements.10.2.3.1 VERIFICATION OF INSULATING MATERIALS TO NORMAL HEATMeets the product standard's requirements.10.2.3.2 VERIFICATION OF INSULATING MATERIALS TO NORMAL HEATMeets the product standard's requirements.10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTSMeets the product standard's requirements.10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATIONMeets the product standard's requirements.10.2.5 LIFTINGDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 MECHANICAL IMPACTDoes not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                   | Product specifications                                     |                                                                                       |
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| 10.10 TEMPERATURE RISE  10.11 SHORT-CIRCUIT RATING  10.12 ELECTROMAGNETIC COMPATIBILITY  10.13 MECHANICAL FUNCTION  10.2.2 CORROSION RESISTANCE  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF RESISTANCE  10.2.3.3 RESIST. OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSULATING MATERIALS TO NORMAL HEAT  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  10.2.6 MECHANICAL IMPACT  10.20 IS the panel builder's responsibility. The specifications for the switchgear must be observed.  1 be device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  1 Meets the product standard's requirements.  2 Meets the product standard's requirements.  3 Meets the product standard's requirements.  4 Meets the product standard's requirements.  5 Meets the product standard's requirements.  6 Meets the product standard's requirements.  7 Meets the product standard's requirements.  8 Meets the product standard's requirements.  9 Does not apply, since the entire switchgear needs to be evaluated.  10.2.6 MECHANICAL  10.2.6 MECHANICAL  10.2.7 Meets the product standard's requirements. | NUMBER OF POLES                                            | Three-pole                                                                            |
| responsibility. The specifications for the switchgear must be observed.  10.12 ELECTROMAGNETIC COMPATIBILITY  10.13 MECHANICAL FUNCTION  10.2.2 CORROSION RESISTANCE  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  10.2.6 MECHANICAL INPACT  10.2.6 MECHANICAL INPACT  10.2.6 MECHANICAL INPACT  10.2.6 MECHANICAL IMPACT  10.12 ELECTROMAGNETIC Switchgear needs to be evaluated.  10.13 Meets the product standard's requirements.  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  10.2.6 MECHANICAL Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10.10 TEMPERATURE RISE                                     | responsible for the temperature rise calculation. Eaton will provide heat dissipation |
| 10.12 ELECTROMAGNETIC COMPATIBILITY  10.13 MECHANICAL FUNCTION  10.2.2 CORROSION RESISTANCE  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  10.2.6 MECHANICAL IMPACT  10.2.6 MECHANICAL IMPACT  The device meets the switchgear needs to be evaluated.  The device meets the requirements have switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                            | responsibility. The specifications for the switchgear must be                         |
| 10.13 MECHANICAL FUNCTION  requirements, provided the information in the instruction leaflet (IL) is observed.  10.2.2 CORROSION RESISTANCE  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                            | responsibility. The specifications for the switchgear must be                         |
| RESISTANCE  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  Meets the product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                            | requirements, provided<br>the information in the<br>instruction leaflet (IL) is       |
| THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  Meets the product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            | •                                                                                     |
| RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | THERMAL STABILITY OF                                       | •                                                                                     |
| INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  Does not apply, since the entire switchgear needs to be evaluated.  10.2.6 MECHANICAL IMPACT  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RESISTANCE OF INSULATING MATERIALS                         | •                                                                                     |
| ULTRA-VIOLET (UV)<br>RADIATIONMeets the product<br>standard's requirements.10.2.5 LIFTINGDoes not apply, since the<br>entire switchgear needs to<br>be evaluated.10.2.6 MECHANICAL<br>IMPACTDoes not apply, since the<br>entire switchgear needs to<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | INSUL. MAT. TO<br>ABNORMAL HEAT/FIRE<br>BY INTERNAL ELECT. | •                                                                                     |
| 10.2.5 LIFTING entire switchgear needs to be evaluated.  10.2.6 MECHANICAL Does not apply, since the entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ULTRA-VIOLET (UV)                                          | •                                                                                     |
| IMPACT entire switchgear needs to be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10.2.5 LIFTING                                             | entire switchgear needs to                                                            |
| NA t t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            | entire switchgear needs to                                                            |
| 10.2.7 INSCRIPTIONS standard's requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10.2.7 INSCRIPTIONS                                        | Meets the product standard's requirements.                                            |
| <b>10.3 DEGREE OF PROTECTION OF</b> Does not apply, since the entire switchgear needs to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            |                                                                                       |

| Resources                         |                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | SmartWire-DT Catalog                                                                                                                                                                                                                                                                                               |
| CATALOGS                          | eaton-product-overview-<br>for-machinery-catalogue-<br>ca08103003zen-en-us.pdf  Product Range Catalog Switching and protecting motors                                                                                                                                                                              |
|                                   | eaton-contactors-short-<br>time-loading-dilm-<br>characteristic-curve.eps<br>eaton-contactors-switch-<br>dilm-characteristic-<br>curve.eps                                                                                                                                                                         |
| CHARACTERISTIC CURVE              | eaton-contactors-switch-dilm-characteristic-curve-002.eps                                                                                                                                                                                                                                                          |
|                                   | eaton-contactors-<br>component-dilm-<br>characteristic-curve-<br>003.eps                                                                                                                                                                                                                                           |
| DECLARATIONS OF                   | <u>DA-DC-00004816.pdf</u>                                                                                                                                                                                                                                                                                          |
| CONFORMITY                        |                                                                                                                                                                                                                                                                                                                    |
| CONFORMITY                        | DA-DC-00004783.pdf                                                                                                                                                                                                                                                                                                 |
| CONFORMITY                        | DA-DC-00004783.pdf  eaton-contactors- mounting-dilm- dimensions.eps                                                                                                                                                                                                                                                |
| CONFORMITY                        | eaton-contactors-<br>mounting-dilm-                                                                                                                                                                                                                                                                                |
| DRAWINGS                          | eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors- mounting-dilm-                                                                                                                                                                                                                                  |
|                                   | eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors- mounting-dilm- dimensions-002.eps  eaton-contactors-contact-                                                                                                                                                                                    |
|                                   | eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors- mounting-dilm- dimensions-002.eps  eaton-contactors-contact- dimensions-210x202.eps  eaton-contactors-                                                                                                                                          |
|                                   | eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors- mounting-dilm- dimensions-002.eps  eaton-contactors-contact- dimensions-210x202.eps  eaton-contactors- dimensions-210t014.eps  eaton-general-ie-ready- dilm-contactor-                                                                          |
|                                   | eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors- mounting-dilm- dimensions-002.eps  eaton-contactors-contact- dimensions-210x202.eps  eaton-contactors- dimensions-210t014.eps  eaton-general-ie-ready- dilm-contactor- standards.eps  eaton-contactors-dilm-3d-                                 |
| DRAWINGS                          | eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors- mounting-dilm- dimensions-002.eps  eaton-contactors-contact- dimensions-210x202.eps  eaton-contactors- dimensions-210t014.eps  eaton-general-ie-ready- dilm-contactor- standards.eps  eaton-contactors-dilm-3d- drawing-010.eps                 |
| DRAWINGS  ECAD MODEL INSTALLATION | eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors- mounting-dilm- dimensions-002.eps  eaton-contactors-contact- dimensions-210x202.eps  eaton-contactors- dimensions-210t014.eps  eaton-general-ie-ready- dilm-contactor- standards.eps  eaton-contactors-dilm-3d- drawing-010.eps  ETN.277598.edz |

| ASSEMBLIES                                                     | be evaluated.                                                                                                                                             |
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| 10.4 CLEARANCES AND CREEPAGE DISTANCES                         | Meets the product standard's requirements.                                                                                                                |
| 10.5 PROTECTION<br>AGAINST ELECTRIC<br>SHOCK                   | Does not apply, since the entire switchgear needs to be evaluated.                                                                                        |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS         | Does not apply, since the entire switchgear needs to be evaluated.                                                                                        |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS              | Is the panel builder's responsibility.                                                                                                                    |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS                       | Is the panel builder's responsibility.                                                                                                                    |
| 10.9.2 POWER-<br>FREQUENCY ELECTRIC<br>STRENGTH                | Is the panel builder's responsibility.                                                                                                                    |
| 10.9.3 IMPULSE<br>WITHSTAND VOLTAGE                            | ls the panel builder's responsibility.                                                                                                                    |
| 10.9.4 TESTING OF<br>ENCLOSURES MADE OF<br>INSULATING MATERIAL | ls the panel builder's responsibility.                                                                                                                    |
| FITTED WITH:                                                   | Suppressor circuit in actuating electronics                                                                                                               |
| OPERATING FREQUENCY                                            | 5000 mechanical<br>Operations/h (DC<br>operated)                                                                                                          |
| POLLUTION DEGREE                                               | 3                                                                                                                                                         |
| CLIMATIC PROOFING                                              | Damp heat, constant, to<br>IEC 60068-2-78<br>Damp heat, cyclic, to IEC<br>60068-2-30                                                                      |
| CONNECTION TO SMARTWIRE-DT                                     | No                                                                                                                                                        |
| RATED IMPULSE<br>WITHSTAND VOLTAGE<br>(UIMP)                   | 8000 V AC                                                                                                                                                 |
| UTILIZATION CATEGORY                                           | AC-3: Normal AC induction<br>motors: starting, switch off<br>during running<br>AC-1: Non-inductive or<br>slightly inductive loads,<br>resistance furnaces |
|                                                                | AC-4: Normal AC induction motors: starting, plugging, reversing, inching                                                                                  |
| CONNECTION                                                     | motors: starting, plugging,                                                                                                                               |
| CONNECTION FRAME SIZE                                          | motors: starting, plugging, reversing, inching                                                                                                            |
|                                                                | motors: starting, plugging, reversing, inching  Spring-loaded terminals                                                                                   |

|                 | DA-CS-dil_mc17_38                                           |
|-----------------|-------------------------------------------------------------|
| SYSTEM OVERVIEW | eaton-contactors-dilm-<br>contactor-system-<br>overview.eps |
| WIRING DIAGRAMS | eaton-contactors-contact-<br>dilm-wiring-diagram.eps        |

| AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE 40 °C (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE 25 °C (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 42 HP  HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 BHP  HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 BHP  HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 BHP  HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 BHP  HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 BHP  HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 BHP  HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEMPERATURE (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH  80 A  (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH  32 A                                                                                                                                                                  |
| TEMPERATURE (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 2 HP HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 5 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 5 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 10 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 15 HP HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH  80 A  (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH  32 A                                                                                                                                                                                  |
| TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 2 HP HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 5 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 5 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 10 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 15 HP HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH 80 A  (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                  |
| TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 2 HP  HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 5 HP  HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP  HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 5 HP  HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 10 HP  HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 15 HP  HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH 80 A  (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                               |
| POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH 80 A (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                                                     |
| POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH  80 A  (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH  32 A                                                                                                                                                                                                                                                                                                                                                                                        |
| POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 5 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 10 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 15 HP HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH 80 A (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                                                                                                                                                                                             |
| POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| POWER AT 460/480 V, 60 10 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 15 HP HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH 80 A (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH 80 A (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| THERMAL CURRENT ITH 80 A (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| THERMAL CURRENT ITH 32 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CONVENTIONAL THERMAL CURRENT ITH 37 A AT 55°C (3-POLE, OPEN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EQUIPMENT HEAT DISSIPATION, CURRENT- 2.1 W DEPENDENT PVID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| HEAT DISSIPATION CAPACITY PDISS  0 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| HEAT DISSIPATION PER<br>POLE, CURRENT-<br>DEPENDENT PVID                  | 0.7 W                                                                                                                                                                              |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SWITCHING TIME (DC<br>OPERATED, MAKE<br>CONTACTS, CLOSING<br>DELAY) - MAX | 47 ms                                                                                                                                                                              |
| SWITCHING TIME (DC<br>OPERATED, MAKE<br>CONTACTS, OPENING<br>DELAY) - MAX | 30 ms                                                                                                                                                                              |
| APPLICATION                                                               | Contactors for Motors                                                                                                                                                              |
| PRODUCT CATEGORY                                                          | Contactors                                                                                                                                                                         |
| PROTECTION                                                                | Finger and back-of-hand<br>proof, Protection against<br>direct contact when<br>actuated from front (EN<br>50274)                                                                   |
| TERMINALS                                                                 | Spring-cage terminals on auxiliary and control circuit terminals                                                                                                                   |
| ARCING TIME                                                               | 10 ms                                                                                                                                                                              |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT                                | Spring clamp connection Screw connection                                                                                                                                           |
| SCREWDRIVER SIZE                                                          | 2, Terminal screw, Main cables, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Main cables, Standard screwdriver 3.5 mm, Spring-loaded terminals, Control circuit cables |
| VOLTAGE TYPE                                                              | DC                                                                                                                                                                                 |
| DEGREE OF PROTECTION                                                      | IP00                                                                                                                                                                               |
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>CLOSED CONTACTS)             | 0                                                                                                                                                                                  |
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>OPEN CONTACTS)               | 1                                                                                                                                                                                  |
| NUMBER OF CONTACTS<br>(NORMALLY CLOSED) AS<br>MAIN CONTACT                | 0                                                                                                                                                                                  |
| NUMBER OF CONTACTS<br>(NORMALLY OPEN<br>CONTACTS)                         | 1                                                                                                                                                                                  |
| <u> </u>                                                                  |                                                                                                                                                                                    |

| CONTACTS (NORMALLY OPEN CONTACT)                           |                                                                                                                  |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| POWER CONSUMPTION (PICK-UP) AT DC                          | 12 W                                                                                                             |
| POWER CONSUMPTION (SEALING) AT DC                          | 0.9 W                                                                                                            |
| RATED BREAKING<br>CAPACITY AT 220/230 V                    | 170 A                                                                                                            |
| RATED BREAKING<br>CAPACITY AT 380/400 V                    | 170 A                                                                                                            |
| RATED BREAKING<br>CAPACITY AT 500 V                        | 170 A                                                                                                            |
| RATED BREAKING<br>CAPACITY AT 660/690 V                    | 120 A                                                                                                            |
| RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MAX | 0 V                                                                                                              |
| RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MIN | 0 V                                                                                                              |
| RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MAX | 0 V                                                                                                              |
| RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN | 0 V                                                                                                              |
| DROP-OUT VOLTAGE                                           | 0.6 - 0.15 x UC, DC<br>operated<br>At least smoothed two-<br>phase bridge rectifier or<br>three-phase rectifier  |
| OVERVOLTAGE<br>CATEGORY                                    | III                                                                                                              |
| DUTY FACTOR                                                | 100 %                                                                                                            |
| EMITTED INTERFERENCE                                       | According to EN 60947-1                                                                                          |
| INTERFERENCE<br>IMMUNITY                                   | According to EN 60947-1                                                                                          |
| LIFESPAN, MECHANICAL                                       | 10,000,000 Operations (DC operated)                                                                              |
| PICK-UP VOLTAGE                                            | 200 - 240 V DC (RDC 240)<br>0.7 - 1.2 V DC x Uc                                                                  |
| SAFE ISOLATION                                             | 440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140 |
| SCREW SIZE                                                 | M5, Terminal screw, Main                                                                                         |

| TERMINAL CAPACITY (STRANDED)                               | 1 x 16 mm², Main cables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SWITCHING CAPACITY<br>(AUXILIARY CONTACTS,<br>GENERAL USE) | 1 A, 250 V DC, (UL/CSA)<br>10 A, 600 V AC, (UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SWITCHING CAPACITY<br>(AUXILIARY CONTACTS,<br>PILOT DUTY)  | A600, AC operated<br>(UL/CSA)<br>P300, DC operated<br>(UL/CSA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TERMINAL CAPACITY<br>(FLEXIBLE WITH<br>FERRULE)            | 1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 10) mm², Main cables 2 x (0.75 - 1.5) mm², Control circuit cables, Spring-loaded terminals 1 x (0.75 - 1.5) mm², Control circuit cables, Spring-loaded terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SHOCK RESISTANCE                                           | 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5.3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 3.5 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms |
| TERMINAL CAPACITY<br>(SOLID)                               | 2 x (0.75 - 2.5) mm <sup>2</sup> ,<br>Control circuit cables,<br>Spring-loaded terminals<br>1 x (0.75 - 2.5) mm <sup>2</sup> ,<br>Control circuit cables,<br>Spring-loaded terminals<br>1 x (0.75 - 16) mm <sup>2</sup> , Main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                      | cables<br>2 x (0.75 - 10) mm², Main<br>cables                                                                                                              |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TERMINAL CAPACITY<br>(SOLID/STRANDED AWG)                            | 18 - 14, Control circuit<br>cables, Spring-loaded<br>terminals<br>Single 18 - 6, double 18 - 8,<br>Main cables                                             |
| SWITCHING CAPACITY<br>(MAIN CONTACTS,<br>GENERAL USE)                | 40 A, Maximum motor rating (UL/CSA)                                                                                                                        |
| TIGHTENING TORQUE                                                    | 3.2 Nm, Screw terminals,<br>Main cables                                                                                                                    |
| TERMINAL CAPACITY<br>(FLEXIBLE)                                      | 1 x (0.75 - 2.5) mm²,<br>Control circuit cables,<br>Spring-loaded terminals<br>2 x (0.75 - 2.5) mm²,<br>Control circuit cables,<br>Spring-loaded terminals |
| RATED CONTROL SUPPLY<br>VOLTAGE (US) AT DC -<br>MAX                  | 240 V                                                                                                                                                      |
| RATED CONTROL SUPPLY<br>VOLTAGE (US) AT DC -<br>MIN                  | 200 V                                                                                                                                                      |
| RATED INSULATION<br>VOLTAGE (UI)                                     | 690 V                                                                                                                                                      |
| RATED MAKING<br>CAPACITY UP TO 690 V<br>(COS PHI TO IEC/EN<br>60947) | 238 A                                                                                                                                                      |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-1,<br>380 V, 400 V, 415 V    | 40 A                                                                                                                                                       |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>220 V, 230 V, 240 V    | 18 A                                                                                                                                                       |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>380 V, 400 V, 415 V    | 18 A                                                                                                                                                       |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>440 V                  | 18 A                                                                                                                                                       |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>500 V                  | 18 A                                                                                                                                                       |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>660 V, 690 V           | 12 A                                                                                                                                                       |
| RATED OPERATIONAL                                                    | 10 A                                                                                                                                                       |

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

| RATED OPERATIONAL<br>POWER AT AC-4, 500 V, 50<br>HZ                     | 6 kW                                                                                                                                                        |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RATED OPERATIONAL<br>POWER AT AC-4, 660/690<br>V, 50 HZ                 | 6.5 kW                                                                                                                                                      |
| RATED OPERATIONAL POWER (NEMA)                                          | 7.4 kW                                                                                                                                                      |
| RATED OPERATIONAL<br>VOLTAGE (UE) AT AC -<br>MAX                        | 690 V                                                                                                                                                       |
| RESISTANCE PER POLE                                                     | 2.7 mΩ                                                                                                                                                      |
| STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS                     | 0.9 W                                                                                                                                                       |
| STRIPPING LENGTH<br>(CONTROL CIRCUIT<br>CABLE)                          | 10 mm                                                                                                                                                       |
| STRIPPING LENGTH<br>(MAIN CABLE)                                        | 10 mm                                                                                                                                                       |
| SHORT-CIRCUIT CURRENT<br>RATING (BASIC RATING)                          | 5 kA, SCCR (UL/CSA)<br>125 A, max. CB, SCCR<br>(UL/CSA)<br>125 A, max. Fuse, SCCR<br>(UL/CSA)                                                               |
| SHORT-CIRCUIT CURRENT<br>RATING (HIGH FAULT AT<br>480 V)                | 10/100 kA, Fuse, SCCR<br>(UL/CSA)<br>10/65 kA, CB, SCCR<br>(UL/CSA)<br>125/70 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>50/32 A, max. CB, SCCR<br>(UL/CSA) |
| SHORT-CIRCUIT CURRENT<br>RATING (HIGH FAULT AT<br>600 V)                | 10/100 kA, Fuse, SCCR<br>(UL/CSA)<br>50/32 A, max. CB, SCCR<br>(UL/CSA)<br>125/70 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>10/22 kA, CB, SCCR<br>(UL/CSA) |
| SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 1 COORDINATION)<br>AT 400 V | 63 A gG/gL                                                                                                                                                  |
| SUITABLE FOR                                                            | Also motors with efficiency class IE3                                                                                                                       |
| SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION)                   | 50 A gG/gL                                                                                                                                                  |

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

|                                                               | 277 V 60 Hz 1phase,<br>(UL/CSA) |
|---------------------------------------------------------------|---------------------------------|
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 40°C (3-POLE, OPEN) | 40 A                            |
| CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)       | 38 A                            |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 60°C (3-POLE, OPEN) | 35 A                            |
| RATED OPERATIONAL<br>POWER AT AC-3, 440 V, 50<br>HZ           | 10.5 kW                         |
| RATED OPERATIONAL<br>POWER AT AC-3, 500 V, 50<br>HZ           | 12 kW                           |
| RATED OPERATIONAL<br>POWER AT AC-3, 690 V, 50<br>HZ           | 11 kW                           |
| ACTUATING VOLTAGE                                             | RDC 240: 200 - 240 V DC         |
| ALTITUDE                                                      | Max. 2000 m                     |
| OPERATING VOLTAGE AT<br>AC, 50 HZ - MIN                       | 24 V                            |
| OPERATING VOLTAGE AT AC, 50 HZ - MAX                          | 690 V                           |
| OPERATING VOLTAGE AT<br>AC, 60 HZ - MIN                       | 24 V                            |
| OPERATING VOLTAGE AT AC, 60 HZ - MAX                          | 690 V                           |

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



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