# Specifications

#### Photo is representative

## Eaton 239457

Eaton Moeller® series DILM Contactor, 380 V 400 V 37 kW, 2 N/O, 2 NC, 230 V 50/60 Hz, AC operation, Screw terminals

| General specification   | S  |
|-------------------------|--|
| PRODUCT NAME            | Eaton Moeller® series<br>DILM contactor  |
| CATALOG NUMBER          | 239457   |
| MODEL CODE              | DILM80-22(230V50/60HZ)   |
| EAN                     | 4015082394578  |
| PRODUCT<br>LENGTH/DEPTH | 175 mm   |
| PRODUCT HEIGHT          | 170 mm   |
| PRODUCT WIDTH           | 90 mm  |
| PRODUCT WEIGHT          | 2.22 kg  |
| WARRANTY                | 1 year   |
| COMPLIANCES             | CE Marked  |
| CERTIFICATIONS          | CSA Std. C22.2 No. 14-05<br>EN 60947-4-1<br>IEC 60947-4-1<br>UL 508<br>IEC/EN 60947<br>VDE 0660<br>UL File No.: E29096<br>UL Category Control No.:<br>NLDX<br>UL<br>CSA<br>CSA File No.: 012528<br>CSA-C22.2 No. 14-05<br>CSA Class No.: 2411-03,<br>3211-04<br>IEC/EN 60947-4-1<br>CE |
| CATALOG NOTES           | Contacts according to EN 50012   |
| GLOBAL CATALOG          | 239457   |



### Product specifications

| Product specification  | 5   | Resource   |
|--|---|------------|
| ELECTRICAL<br>CONNECTION TYPE FOR<br>AUXILIARY- AND<br>CONTROL-CURRENT<br>CIRCUIT            | Screw connection  | CATALOGS   |
| AMPERAGE RATING  | 170A  |            |
| HP RATING - MAX  | 2, 5/ 7.5, 10, 15, 20, hp<br>(1/3PH @120, 240/208,<br>240, 480, 600 V)  |            |
| NUMBER OF POLES  | Three-pole  |            |
| ТҮРЕ   | Full voltage non-reversing contactor  |            |
| VOLTAGE RATING   | 400 V   |            |
| 10.10 TEMPERATURE RISE   | The panel builder is<br>responsible for the<br>temperature rise<br>calculation. Eaton will<br>provide heat dissipation<br>data for the devices. | CHARACTER  |
| 10.11 SHORT-CIRCUIT<br>RATING  | Is the panel builder's<br>responsibility. The<br>specifications for the<br>switchgear must be<br>observed.                                      |            |
| 10.12 ELECTROMAGNETIC<br>COMPATIBILITY   | Is the panel builder's<br>responsibility. The<br>specifications for the<br>switchgear must be<br>observed.                                      | DECLARATIC |
| 10.13 MECHANICAL<br>FUNCTION   | The device meets the<br>requirements, provided<br>the information in the<br>instruction leaflet (IL) is<br>observed.                            |            |
| 10.2.2 CORROSION<br>RESISTANCE   | Meets the product standard's requirements.  |            |
| 10.2.3.1 VERIFICATION OF<br>THERMAL STABILITY OF<br>ENCLOSURES                               | Meets the product standard's requirements.  | DRAWINGS   |
| 10.2.3.2 VERIFICATION OF<br>RESISTANCE OF<br>INSULATING MATERIALS<br>TO NORMAL HEAT          | Meets the product<br>standard's requirements.   |            |
| 10.2.3.3 RESIST. OF<br>INSUL. MAT. TO<br>ABNORMAL HEAT/FIRE<br>BY INTERNAL ELECT.<br>EFFECTS | Meets the product<br>standard's requirements.   | ECAD MODE  |
| 10.2.4 RESISTANCE TO   | Meets the product   | 1          |
|  |   |            |

#### Resources

#### SmartWire-DT Catalog

Product Range Catalog Switching and protecting motors

eaton-product-overviewfor-machinery-catalogueca08103003zen-en-us.pdf

eaton-contactorscomponent-dilmcharacteristic-curve-<u>003.eps</u>

eaton-contactors-shorttime-loading-dilmcharacteristic-curve-<u>002.eps</u>

#### CHARACTERISTIC CURVE

eaton-contactors-switchdilm-characteristic-curve-002.eps

eaton-contactors-switchdilm-characteristiccurve.eps

eaton-contactors-shorttime-loading-dilmcharacteristic-curve.eps

### **DECLARATIONS OF**

CONFORMITY

eaton-contactors-dilmdimensions-011.eps

DA-DC-00004818.pdf

DA-DC-00004781.pdf

eaton-contactorsmounting-dilmdimensions-002.eps

eaton-contactorsmounting-dilmdimensions.eps

eaton-contactors-dilmdimensions-003.eps

eaton-general-ie-readydilm-contactorstandards.eps

eaton-contactors-dilm-3ddrawing.eps

ETN.239457.edz

ECAD MODEL

| ULTRA-VIOLET (UV)<br>RADIATION                                 | standard's requirements.   |
|--|--|
| 10.2.5 LIFTING   | Does not apply, since the entire switchgear needs to be evaluated.                   |
| 10.2.6 MECHANICAL<br>IMPACT                                    | Does not apply, since the entire switchgear needs to be evaluated.                   |
| 10.2.7 INSCRIPTIONS  | Meets the product standard's requirements.   |
| 10.3 DEGREE OF<br>PROTECTION OF<br>ASSEMBLIES                  | Does not apply, since the<br>entire switchgear needs to<br>be evaluated.             |
| 10.4 CLEARANCES AND<br>CREEPAGE DISTANCES                      | Meets the product standard's requirements.   |
| 10.5 PROTECTION<br>AGAINST ELECTRIC<br>SHOCK                   | Does not apply, since the<br>entire switchgear needs to<br>be evaluated.             |
| 10.6 INCORPORATION OF<br>SWITCHING DEVICES AND<br>COMPONENTS   | Does not apply, since the entire switchgear needs to be evaluated.                   |
| 10.7 INTERNAL<br>ELECTRICAL CIRCUITS<br>AND CONNECTIONS        | ls the panel builder's responsibility.   |
| 10.8 CONNECTIONS FOR<br>EXTERNAL CONDUCTORS                    | ls the panel builder's responsibility.   |
| 10.9.2 POWER-<br>FREQUENCY ELECTRIC<br>STRENGTH                | ls the panel builder's responsibility.   |
| 10.9.3 IMPULSE<br>WITHSTAND VOLTAGE                            | ls the panel builder's<br>responsibility.  |
| 10.9.4 TESTING OF<br>ENCLOSURES MADE OF<br>INSULATING MATERIAL | ls the panel builder's<br>responsibility.  |
| FITTED WITH:   | Mirror contact   |
| FREQUENCY RATING   | 50-60 Hz   |
| OPERATING FREQUENCY  | 3600 mechanical<br>Operations/h (AC<br>operated)                                     |
| POLLUTION DEGREE   | 3  |
| CLIMATIC PROOFING  | Damp heat, cyclic, to IEC<br>60068-2-30<br>Damp heat, constant, to<br>IEC 60068-2-78 |
| RATED IMPULSE<br>WITHSTAND VOLTAGE<br>(UIMP)                   | 8000 V AC  |
| UTILIZATION CATEGORY   | AC-4: Normal AC induction motors: starting, plugging,                                |
|  |  |

| INSTALLATION<br>INSTRUCTIONS | <u>eaton-dil-contactors-</u><br><u>instruction-leaflet-</u><br><u>il03407039z.pdf</u> |
|------------------------------|---|
| INSTALLATION VIDEOS          | <u>WIN-WIN with push-in</u><br><u>technology</u>                                      |
| MCAD MODEL                   | <u>dil_m80_150_22.stp</u>   |
|                              | <u>dil_m80_150_22.dwg</u>   |
| WIRING DIAGRAMS              | 2100SWI-125   |

|   | reversing, inching<br>AC-1: Non-inductive or<br>slightly inductive loads,<br>resistance furnaces<br>AC-3: Normal AC induction<br>motors: starting, switch off<br>during running |
|---|---|
| CONNECTION  | Screw terminals   |
| AMBIENT OPERATING<br>TEMPERATURE - MAX                        | 60 °C   |
| AMBIENT OPERATING<br>TEMPERATURE - MIN                        | -25 °C  |
| AMBIENT OPERATING<br>TEMPERATURE<br>(ENCLOSED) - MAX          | 40 °C   |
| AMBIENT OPERATING<br>TEMPERATURE<br>(ENCLOSED) - MIN          | 25 °C   |
| AMBIENT STORAGE<br>TEMPERATURE - MAX                          | 80 °C   |
| AMBIENT STORAGE<br>TEMPERATURE - MIN                          | 40 °C   |
| ASSIGNED MOTOR<br>POWER AT 115/120 V, 60<br>HZ, 1-PHASE       | 7.5 HP  |
| ASSIGNED MOTOR<br>POWER AT 200/208 V, 60<br>HZ, 3-PHASE       | 25 HP   |
| ASSIGNED MOTOR<br>POWER AT 230/240 V, 60<br>HZ, 1-PHASE       | 15 HP   |
| ASSIGNED MOTOR<br>POWER AT 230/240 V, 60<br>HZ, 3-PHASE       | 30 HP   |
| ASSIGNED MOTOR<br>POWER AT 460/480 V, 60<br>HZ, 3-PHASE       | 60 HP   |
| ASSIGNED MOTOR<br>POWER AT 575/600 V, 60<br>HZ, 3-PHASE       | 75 HP   |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>(1-POLE, ENCLOSED)     | 200 A   |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>(3-POLE, ENCLOSED)     | 80 A  |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 55°C (3-POLE, OPEN) | 94 A  |
| CONVENTIONAL  | 225 A   |

| THERMAL CURRENT ITH<br>OF MAIN CONTACTS (1-<br>POLE, OPEN)    |   |
|---|---|
| EQUIPMENT HEAT<br>DISSIPATION, CURRENT-<br>DEPENDENT PVID     | 9 W   |
| HEAT DISSIPATION<br>CAPACITY PDISS                            | 0 W   |
| HEAT DISSIPATION PER<br>POLE, CURRENT-<br>DEPENDENT PVID      | 3 W   |
| 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   | Screw terminals   |
| ARCING TIME   | 15 ms   |
| ELECTRICAL<br>CONNECTION TYPE OF<br>MAIN CIRCUIT              | Screw connection  |
| SCREWDRIVER SIZE  | 0.8 x 5.5/1 x 6 mm,<br>Terminal screw, Control<br>circuit cables, Standard<br>screwdriver<br>2, Terminal screw, Contro<br>circuit cables, Pozidriv<br>screwdriver |
| VOLTAGE TYPE  | AC  |
| DEGREE OF PROTECTION  | IP00  |
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>CLOSED CONTACTS) | 2   |
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>OPEN CONTACTS)   | 2   |
| NUMBER OF CONTACTS<br>(NORMALLY CLOSED<br>CONTACTS)           | 2   |
| NUMBER OF CONTACTS<br>(NORMALLY CLOSED) AS<br>MAIN CONTACT    | 0   |
| NUMBER OF CONTACTS<br>(NORMALLY OPEN<br>CONTACTS)             | 2   |
| NUMBER OF MAIN<br>CONTACTS (NORMALLY                          | 3   |

| OPEN CONTACT)OPERATING<br>TEMPERATURE - MAX $0^\circ$ COPERATING<br>TEMPERATURE - MIN $-25^\circ$ CRATED BREAKING<br>CAPACITY AT 220/230 V $800A$ RATED BREAKING<br>CAPACITY AT 300/00 V $800A$ RATED BREAKING<br>CAPACITY AT 500 V $300A$ RATED BREAKING<br>CAPACITY AT 600/690 V $50A$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ RATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>H2 - MAX $300V$ DONH1H1DUTY FACTOR $100V$ IDROP-OUT VOLTAGE $100V$ IDTY FACTOR $100V$ IDTY FACTOR $100V$ ILIFESPAN, MECHANICAL $328V$ ADUAL-FRQUENCY<br>ONOGO Operations (ACI<br>SO/GO H2)POWER CONSUMPTION<br>PICK-UP, S0 HZ $328V$ ADUAL-FRQUENCY<br>OI in a cold state and 1.0<br>SUS<br>SIT VA DUAL-FRQUENCY  |                        |   |
|---|------------------------|---|
| TEMPERATURE - MAX60 °COPERATING<br>TEMPERATURE - MIN-25 °CRATED BREAKING<br>CAPACITY AT 220/230 V800 ARATED BREAKING<br>CAPACITY AT 380/400 V800 ARATED BREAKING<br>CAPACITY AT 500 V800 ARATED BREAKING<br>CAPACITY AT 660/990 V650 ARATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN200 VCONTACT<br>CONFIGURATION200 VDROP-OUT VOLTAGE80 ADROP-OUT VOLTAGENON - REACINGDUTY FACTOR100 %EMITTED INTERFERENCE<br>MMUNITYAccording to EN 60947-11DUTY FACTOR100 %ILIFESPAN, MECHANICAL<br>POWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x US   | OPEN CONTACT)          |   |
| TEMPERATURE - MIN-25 °CRATED BREAKING<br>CAPACITY AT 220/230 V800 ARATED BREAKING<br>CAPACITY AT 380/400 V800 ARATED BREAKING<br>CAPACITY AT 500 V800 ARATED BREAKING<br>CAPACITY AT 660/690 V650 ARATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VRATED CONTROL SUPPLY<br>VOLTAGE200 VRATED CONTROL SUPPLY<br>CONFIGURATION200 VRATED CONTROL SUPPLY<br>CONFIGURATION200 VRATED CONTROL SUPPLY200 VRATED CONTROL SUPPLY200 V  |                        | 60 °C                                   |
| CAPACITY AT 220/230 V800 ARATED BREAKING<br>CAPACITY AT 380/400 V800 ARATED BREAKING<br>CAPACITY AT 500 V800 ARATED BREAKING<br>CAPACITY AT 660/690 V650 ARATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VCONTACT<br>CONFIGURATION230 VCONTACT<br>CONFIGURATION230 VDROP-OUT VOLTAGE<br>CATEGORY100 NINTERFERENCE<br>IMMUNITYNon-reversingINTERFERENCE<br>IMMUNITYNon-reversingINTERFERENCE<br>IMMUNITY10,000,000 Operations (AC<br>Operated)<br>7,000,000 Operations (Coil<br>50/60 HZ)POWER CONSUMPTION,<br>PICK-UP VOLTAGE328 VA, Dual-frequency<br>coil in a cold state and 1.0,<br>x US   |                        | -25 °C                                  |
| CAPACITY AT 380/400 V800 ARATED BREAKING<br>CAPACITY AT 500 V800 ARATED BREAKING<br>CAPACITY AT 660/690 V650 ARATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 500<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 600<br>HZ - MIN230 VCONTACT<br>CONFIGURATION230 VDUTY FACTOR100 VDUTY FACTOR100 %EINITED INTERFERENCE<br>IMMUNITYAccording to EN 60947-11OPERATIONNon-reversingINTERFERENCE<br>IMMUNITY10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coll<br>50/60 HZ)POWER CONSUMPTION,<br>PICK-UP, 50 HZ232 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x US   |                        | 800 A                                   |
| CAPACITY AT 500 V800 ARATED BREAKING<br>CAPACITY AT 660/690 V650 ARATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN200 VCOIL VOLTAGE<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br>CONTACT<br> |                        | 800 A                                   |
| CAPACITY AT 660/690 V650 ARATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VCOIL VOLTAGE<br>CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VCONTACT<br>CONFIGURATION230 Vac, 50-60 HzCONTINUOUS AMPERE<br>RATING80 ADROP-OUT VOLTAGE<br>CATEGORY80 ADUTY FACTOR100 %EMITTED INTERFERENCE<br>IMMUNITYAccording to EN 60947-10OPERATIONNon-reversingILIFESPAN, MECHANICAL<br>SO(00 UPERATION, NECHANICAL10,000,000 Operations (AC<br>Operated)<br>2,000,000 Operations (Coil<br>30/60 Hz)POWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x US  |                        | 800 A                                   |
| VOLTAGE (US) AT AC, 50<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 50<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VCOIL VOLTAGE230 Vac, 50-60 HzCONTACT<br>CONFIGURATION20 Vac, 50-60 HzCONTACT<br>CONFIGURATION80 ADROP-OUT VOLTAGE80 ADROP-OUT VOLTAGE100 %EMITTED INTERFERENCE<br>IMMUNITYAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITY10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>5/60 Hz)PICK-UP VOLTAGE328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x US  |                        | 650 A                                   |
| VOLTAGE (US) AT AC, 50<br>HZ - MIN230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VCOIL VOLTAGE230 Vac, 50-60 HZCOIL VOLTAGE20 Vac, 50-60 HZCONTACT<br>CONFIGURATION20 NO, 2 NCCONTINUOUS AMPERE<br>RATING80 ADROP-OUT VOLTAGE100 %COVERVOLTAGE<br>CATEGORY100 %DUTY FACTORAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITY10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 HZ)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ238 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x US   | VOLTAGE (US) AT AC, 50 | 230 V                                   |
| VOLTAGE (US) AT AC, 60<br>HZ - MAX230 VRATED CONTROL SUPPLY<br>VOLTAGE (US) AT AC, 60<br>HZ - MIN230 Vac, 50-60 HzCOIL VOLTAGE230 Vac, 50-60 HzCOIL VOLTAGE2 NO, 2 NCCONTACT<br>CONFIGURATION80 ADROP-OUT VOLTAGE&0 ADROP-OUT VOLTAGEIIIOVERVOLTAGE<br>CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCE<br>IMMUNITYAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITY10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>SO/60 Hz)PICK-UP VOLTAGE328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x US   | VOLTAGE (US) AT AC, 50 | 230 V                                   |
| VOLTAGE (US) AT AC, 60<br>HZ - MIN230 VCOIL VOLTAGE230 Vac, 50-60 HzCONTACT<br>CONFIGURATION2 NO, 2 NCCONTINUOUS AMPERE<br>RATING80 ADROP-OUT VOLTAGEAC operated: 0.6 - 0.3 x<br>UC, AC operatedOVERVOLTAGE<br>CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCE<br>IMMUNITYAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITY10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us   | VOLTAGE (US) AT AC, 60 | 230 V                                   |
| CONTACT<br>CONFIGURATION2 NO, 2 NCCONTINUOUS AMPERE<br>RATING80 ADROP-OUT VOLTAGEAC operated: 0.6 - 0.3 x<br>UC, AC operatedDVERVOLTAGE<br>CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCEAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us   | VOLTAGE (US) AT AC, 60 | 230 V                                   |
| CONFIGURATION2 NO, 2 NCCONTINUOUS AMPERE<br>RATING80 ADROP-OUT VOLTAGEAC operated: 0.6 - 0.3 x<br>UC, AC operatedOVERVOLTAGE<br>CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCEAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITYAccording to EN 60947-1IFESPAN, MECHANICAL10,000,000 Operations (AC operated)<br>7,000,000 Operations (Coil 50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0 x Us  | COIL VOLTAGE           | 230 Vac, 50-60 Hz                       |
| RATING80 ARATINGAC operated: 0.6 - 0.3 x<br>UC, AC operatedDROP-OUT VOLTAGEAC operated: 0.6 - 0.3 x<br>UC, AC operatedOVERVOLTAGE<br>CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCEAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITYAccording to EN 60947-1ID,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us  |                        | 2 NO, 2 NC                              |
| DROP-OUT VOLTAGEUC, AC operatedOVERVOLTAGE<br>CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCEAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us  |                        | 80 A                                    |
| CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCEAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us  | DROP-OUT VOLTAGE       | •                                       |
| EMITTED INTERFERENCEAccording to EN 60947-1OPERATIONNon-reversingINTERFERENCE<br>IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us   |                        | Ш                                       |
| OPERATIONNon-reversingINTERFERENCE<br>IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us  | DUTY FACTOR            | 100 %                                   |
| INTERFERENCE<br>IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us  | EMITTED INTERFERENCE   | According to EN 60947-1                 |
| IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL10,000,000 Operations (AC<br>operated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us  | OPERATION              | Non-reversing                           |
| LIFESPAN, MECHANICALoperated)<br>7,000,000 Operations (Coil<br>50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION,<br>PICK-UP, 50 HZ328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us  |                        | According to EN 60947-1                 |
| 328 VA, Dual-frequencyPOWER CONSUMPTION,coil in a cold state and 1.0PICK-UP, 50 HZx Us  | LIFESPAN, MECHANICAL   | operated)<br>7,000,000 Operations (Coil |
| POWER CONSUMPTION,coil in a cold state and 1.0PICK-UP, 50 HZx Us  | PICK-UP VOLTAGE        | 0.8 - 1.1 V AC x Uc                     |
|   |                        | coil in a cold state and 1.0<br>x Us    |

|  | coil in a cold state and 1.0<br>x Us   |
|--|--|
| SAFE ISOLATION   | 690 V AC, Between the<br>contacts, According to EN<br>61140<br>690 V AC, Between coil<br>and contacts, According to<br>EN 61140                                    |
| POWER CONSUMPTION,<br>PICK-UP, 60 HZ                       | 328 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us<br>372 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us                                   |
| RESIDUAL CURRENT   | 1 mA (with actuation of A1<br>- A2 by the electronics with<br>"0" signal)  |
| SCREW SIZE   | M10, Terminal screw, Main<br>cables<br>M3.5, Terminal screw,<br>Control circuit cables<br>5 mm AF, Hexagon socket-<br>head spanner, Terminal<br>screw, Main cables |
| POWER CONSUMPTION,<br>SEALING, 50 HZ                       | 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us  |
| POWER CONSUMPTION,<br>SEALING, 60 HZ                       | 37.1 VA, Dual-frequency<br>coil in a cold state and 1.0<br>x Us, at 60 Hz<br>5.8 W, Dual-frequency coil<br>in a cold state and 1.0 x Us<br>22.6 VA, Dual-frequency |
|  | coil in a cold state and 1.0<br>x Us, at 60 Hz   |
| TERMINAL CAPACITY<br>(STRANDED)                            | 2 x (16 - 50) mm², Main<br>cables<br>1 x (16 - 70) mm², Main<br>cables   |
| SWITCHING CAPACITY<br>(AUXILIARY CONTACTS,<br>GENERAL USE) | 1 A, 250 V DC, (UL/CSA)<br>15 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>(COPPER BAND)                         | 2 x (6 x 16 x 0.8) mm<br>(Number of segments x<br>width x thickness), Main<br>cables   |
| TERMINAL CAPACITY<br>(FLEXIBLE WITH                        | 1 x (0.75 - 2.5) mm²,<br>Control circuit cables  |

| FERRULE)2 x (0.75 - 2.5) mm²,<br>Control circuit cables<br>2 x (10 - 50) mm², Main<br>cables<br>1 x (10 - 70) mm², Main<br>cablesFERRULE)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>5 g, N/C auxiliary contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27, 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>10 g, N/O main contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27, 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>10 g, N/O main contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27, Half-<br>sinusoidal shock 10 ms<br>10 g, N/O auxiliary 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, 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>7 g, N/O auxiliary 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, 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>7 g, N/O auxiliary 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, 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>7 g, N/O auxiliary contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27, Half-< |   |   |
|--|---|---|
| Mechanical, according to<br>IEC/EN 60068-2-27 when<br>tabletop-mounted, 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<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>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>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>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, 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>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>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>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 msTERMINAL CAPACITY<br>(SOLID)2 x (0.75 - 2.5) mm²,<br>Control circuit cables<br>1 x (0.75 - 2.5) mm²,<br>Control circuit cablesTERMINAL CAPACITY<br>(SOLID/STRANDED AWG)18 - 14, Control circuit<br>cables<br>Single 83/0, double<br>82/0, Main cables  | FERRULE)  | Control circuit cables<br>2 x (10 - 50) mm², Main<br>cables<br>1 x (10 - 70) mm², Main  |
| TERMINAL CAPACITY<br>(SOLID)Control circuit cables<br>1 x (0.75 - 2.5) mm²,<br>Control circuit cablesTERMINAL CAPACITY<br>(SOLID/STRANDED AWG)18 - 14, Control circuit<br>cablesSingle 83/0, double<br>82/0, Main cablesSWITCHING CAPACITY   | SHOCK RESISTANCE                                    | Mechanical, according to<br>IEC/EN 60068-2-27 when<br>tabletop-mounted, 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<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>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, 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>7 g, N/O auxiliary contact,<br>Mechanical, according to<br>IEC/EN 60068-2-27 when<br>tabletop-mounted, Half- |
| TERMINAL CAPACITY cables   (SOLID/STRANDED AWG) Single 83/0, double   82/0, Main cables  |   | Control circuit cables<br>1 x (0.75 - 2.5) mm²,   |
| SWITCHING CAPACITY   |   | cables<br>Single 83/0, double   |
| (MAIN CONTACTS,<br>GENERAL USE) 125 A, Maximum motor<br>rating (UL/CSA)  | (MAIN CONTACTS,                                     | 125 A, Maximum motor<br>rating (UL/CSA)   |
| POWER CONSUMPTION37 kW   | POWER CONSUMPTION                                   | 37 kW   |
| TIGHTENING TORQUE1.2 Nm, Screw terminals,<br>Control circuit cables<br>14 Nm, Screw terminals,<br>Main cables  | TIGHTENING TORQUE                                   | Control circuit cables<br>14 Nm, Screw terminals,   |
| RATED CONTROL SUPPLY   | RATED CONTROL SUPPLY<br>VOLTAGE (US) AT DC -<br>MAX | 0 V   |
| VOLTAGE (US) AT DC - 0 V   | RATED CONTROL SUPPLY                                | 0 V   |

| VOLTAGE (US) AT DC -<br>MIN  |        |
|--|--------|
| RATED INSULATION<br>VOLTAGE (UI)                                     | 690 V  |
| RATED MAKING<br>CAPACITY UP TO 690 V<br>(COS PHI TO IEC/EN<br>60947) | 1120 A |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-1,<br>380 V, 400 V, 415 V    | 110 A  |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>220 V, 230 V, 240 V    | 80 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>380 V, 400 V, 415 V    | 80 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>440 V                  | 80 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>500 V                  | 80 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-3,<br>660 V, 690 V           | 65 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-4,<br>220 V, 230 V, 240 V    | 40 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-4,<br>400 V                  | 40 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-4,<br>440 V                  | 40 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-4,<br>500 V                  | 40 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT AC-4,<br>660 V, 690 V           | 27 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT DC-1,<br>110 V                  | 110 A  |
| RATED OPERATIONAL<br>CURRENT (IE) AT DC-1,<br>220 V                  | 70 A   |
| RATED OPERATIONAL<br>CURRENT (IE) AT DC-1, 60<br>V                   | 110 A  |
|  |        |

| RATED OPERATIONAL<br>CURRENT FOR SPECIFIED<br>HEAT DISSIPATION (IN) | 80 A    |
|---|---------|
| RATED OPERATIONAL<br>POWER AT AC-3, 240 V, 50<br>HZ                 | 27.5 kW |
| RATED OPERATIONAL<br>POWER AT AC-3, 380/400<br>V, 50 HZ             | 37 kW   |
| RATED OPERATIONAL<br>POWER AT AC-3, 415 V, 50<br>HZ                 | 48 kW   |
| RATED OPERATIONAL<br>POWER AT AC-4, 220/230<br>V, 50 HZ             | 11.5 kW |
| RATED OPERATIONAL<br>POWER AT AC-4, 240 V, 50<br>HZ                 | 13 kW   |
| RATED OPERATIONAL<br>POWER AT AC-4, 380/400<br>V, 50 HZ             | 20 kW   |
| RATED OPERATIONAL<br>POWER AT AC-4, 415 V, 50<br>HZ                 | 24 kW   |
| RATED OPERATIONAL<br>POWER AT AC-4, 440 V, 50<br>HZ                 | 25 kW   |
| RATED OPERATIONAL<br>POWER AT AC-4, 500 V, 50<br>HZ                 | 29 kW   |
| RATED OPERATIONAL<br>POWER AT AC-4, 660/690<br>V, 50 HZ             | 26 kW   |
| RATED OPERATIONAL<br>POWER (NEMA)                                   | 44.7 kW |
| RATED OPERATIONAL<br>VOLTAGE (UE) AT AC -<br>MAX                    | 690 V   |
| RESISTANCE PER POLE   | 0.6 mΩ  |
| STATIC HEAT<br>DISSIPATION, NON-<br>CURRENT-DEPENDENT<br>PVS        | 5.8 W   |
| STRIPPING LENGTH<br>(CONTROL CIRCUIT<br>CABLE)                      | 10 mm   |
| STRIPPING LENGTH<br>(MAIN CABLE)                                    | 24 mm   |
| SWITCHING TIME (AC<br>OPERATED, MAKE                                | 20 ms   |
|   |         |

| CONTACTS, CLOSING<br>DELAY) - MAX  |   |
|--|---|
| SWITCHING TIME (AC<br>OPERATED, MAKE<br>CONTACTS, CLOSING<br>DELAY) - MIN  | 14 ms   |
| SWITCHING TIME (AC<br>OPERATED, MAKE<br>CONTACTS, OPENING<br>DELAY) - MAX  | 14 ms   |
| SWITCHING TIME (AC<br>OPERATED, MAKE<br>CONTACTS, OPENING<br>DELAY) - MIN  | 9 ms  |
| SHORT-CIRCUIT CURRENT<br>RATING (BASIC RATING)   | 600 A, max. CB, SCCR<br>(UL/CSA)<br>10 kA, SCCR (UL/CSA)<br>600 A, max. Fuse, SCCR<br>(UL/CSA)  |
| SHORT-CIRCUIT CURRENT<br>RATING (HIGH FAULT AT<br>480 V)   | 65 kA, CB, SCCR (UL/CSA)<br>300/300 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>30/100 kA, Fuse, SCCR<br>(UL/CSA)<br>250 A, max. CB, SCCR<br>(UL/CSA)  |
|  | 30/100 kA, Fuse, SCCR   |
| SHORT-CIRCUIT CURRENT<br>RATING (HIGH FAULT AT<br>600 V)   | (UL/CSA)<br>350 A, max. CB, SCCR<br>(UL/CSA)<br>300/300 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>30 kA, CB, SCCR (UL/CSA)   |
| RATING (HIGH FAULT AT  | (UL/CSA)<br>350 A, max. CB, SCCR<br>(UL/CSA)<br>300/300 A, Class J, max.<br>Fuse, SCCR (UL/CSA)   |
| RATING (HIGH FAULT AT<br>600 V)<br>SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 1 COORDINATION)   | (UL/CSA)<br>350 A, max. CB, SCCR<br>(UL/CSA)<br>300/300 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>30 kA, CB, SCCR (UL/CSA)   |
| RATING (HIGH FAULT AT<br>600 V)<br>SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 1 COORDINATION)<br>AT 400 V   | (UL/CSA)<br>350 A, max. CB, SCCR<br>(UL/CSA)<br>300/300 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>30 kA, CB, SCCR (UL/CSA)<br>250 A gG/gL  |
| RATING (HIGH FAULT AT<br>600 V)<br>SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 1 COORDINATION)<br>AT 400 V<br>SUITABLE FOR<br>SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 1 COORDINATION)  | (UL/CSA)<br>350 A, max. CB, SCCR<br>(UL/CSA)<br>300/300 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>30 kA, CB, SCCR (UL/CSA)<br>250 A gG/gL<br>Also motors with efficiency<br>class IE3                |
| RATING (HIGH FAULT AT<br>600 V)<br>SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 1 COORDINATION)<br>AT 400 V<br>SUITABLE FOR<br>SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 1 COORDINATION)<br>AT 690 V<br>SHORT-CIRCUIT<br>PROTECTION RATING<br>(TYPE 2 COORDINATION) | (UL/CSA)<br>350 A, max. CB, SCCR<br>(UL/CSA)<br>300/300 A, Class J, max.<br>Fuse, SCCR (UL/CSA)<br>30 kA, CB, SCCR (UL/CSA)<br>250 A gG/gL<br>Also motors with efficiency<br>class IE3<br>200 A gG/gL |

| RATING OF BALLAST<br>ELECTRICAL DISCHARGE<br>LAMPS                  | 347V 60Hz 1phase)<br>100 A (480V 60Hz 3phase,<br>277V 60Hz 1phase)   |
|---|--|
| SPECIAL PURPOSE<br>RATING OF DEFINITE<br>PURPOSE RATING             | 80 A, FLA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>480 A, LRA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)  |
| SPECIAL PURPOSE<br>RATING OF ELEVATOR<br>CONTROL                    | 65 A, 480 V 60 Hz 3-ph,<br>(UL/CSA)<br>62.1 A, 200 V 60 Hz 3-ph,<br>(UL/CSA)<br>25 HP, 240 V 60 Hz 3-ph,<br>(UL/CSA)<br>68 A, 240 V 60 Hz 3-ph,<br>(UL/CSA)<br>20 HP, 200 V 60 Hz 3-ph,<br>(UL/CSA)<br>50 HP, 480 V 60 Hz 3-ph,<br>(UL/CSA)<br>62 A, 600 V 60 Hz 3-ph,<br>(UL/CSA)<br>60 HP, 600 V 60 Hz 3-ph,<br>(UL/CSA) |
| SPECIAL PURPOSE<br>RATING OF<br>REFRIGERATION<br>CONTROL (CSA ONLY) | 540 A, LRA 480 V 60 Hz<br>3phase; (CSA)<br>90 A, FLA 480 V 60 Hz<br>3phase; (CSA)<br>420 A, LRA 600 V 60 Hz<br>3phase; (CSA)<br>70 A, FLA 600 V 60 Hz<br>3phase; (CSA)   |
| SPECIAL PURPOSE<br>RATING OF RESISTANCE<br>AIR HEATING              | 100 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA)<br>100 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA)   |
| SPECIAL PURPOSE<br>RATING OF TUNGSTEN<br>INCANDESCENT LAMPS         | 100 A, 600 V 60 Hz 3phase,<br>347 V 60 Hz 1phase,<br>(UL/CSA)<br>100 A, 480 V 60 Hz 3phase,<br>277 V 60 Hz 1phase,<br>(UL/CSA)   |
| OPERATING<br>TEMPERATURE  | -25° to 60°C   |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 40°C (3-POLE, OPEN)       | 110 A  |
| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 50°C (3-POLE, OPEN)       | 98 A   |

| CONVENTIONAL<br>THERMAL CURRENT ITH<br>AT 60°C (3-POLE, OPEN) | 90 A           |
|---|----------------|
| RATED OPERATIONAL<br>POWER AT AC-3, 440 V, 50<br>HZ           | 51 kW          |
| RATED OPERATIONAL<br>POWER AT AC-3, 500 V, 50<br>HZ           | 58 kW          |
| RATED OPERATIONAL<br>POWER AT AC-3, 690 V, 50<br>HZ           | 63 kW          |
| ACTUATING VOLTAGE   | 230 V 50/60 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          |

#### **PROJECT NAME:**

**PROJECT NUMBER:** 

PREPARED BY:

DATE:



#### Eaton Corporation plc Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

