# Eaton 283167

Eaton Moeller® series MSC-D DOL starter, 380 V 400 V 415 V: 5.5 kW, Ir= 8 - 12 A, 24 V DC, DC MSC-D-12-M12(24VDC)

| | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller® series MSC-D DOL starter |
| **CATALOG NUMBER** | 283167 |
| **PRODUCT LENGTH/DEPTH** | 95 mm |
| **PRODUCT HEIGHT** | 180 mm |
| **PRODUCT WIDTH** | 45 mm |
| **PRODUCT WEIGHT** | 0.645 kg |
| **CERTIFICATIONS** | CSA File No.: 012528<br>UL 60947-4-1<br>CE<br>CSA-C22.2 No. 60947-4-1-14<br>UL Category Control No.: NLRV<br>UL File No.: E36332<br>CSA Class No.: 3211-24<br>IEC/EN 60947-4-1<br>CSA<br>UL<br>VDE 0660 |

Powering Business Worldwide

| | |
|---|---|
| **TYPE** | Starter with Bi-Metal release |
| **10.10 TEMPERATURE RISE** | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| **10.11 SHORT-CIRCUIT RATING** | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| **10.12 ELECTROMAGNETIC COMPATIBILITY** | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| **10.13 MECHANICAL FUNCTION** | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| **10.2.2 CORROSION RESISTANCE** | Meets the product standard's requirements. |
| **10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES** | Meets the product standard's requirements. |
| **10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT** | Meets the product standard's requirements. |
| **10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS** | Meets the product standard's requirements. |
| **10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION** | Meets the product standard's requirements. |
| **10.2.5 LIFTING** | Does not apply, since the entire switchgear needs to be evaluated. |
| **10.2.6 MECHANICAL IMPACT** | Does not apply, since the entire switchgear needs to be evaluated. |
| **10.2.7 INSCRIPTIONS** | Meets the product standard's requirements. |
| **10.3 DEGREE OF** | Does not apply, since the |

| | |
|---|---|
| **DECLARATIONS OF CONFORMITY** | eaton-dol-starter-declaration-of-conformity-uk251156en.pdf |
| | IL034038ZU IL034014ZU |
| | eaton-manual-motor-starters-device-msc-d-dol-starter-wiring-diagram.eps |
| | eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf |
| | eaton-manual-motor-starters-motorstarter-msc-d-dol-starter-dimensions.eps<br><br>eaton-manual-motor-starters-mounting-msc-d-dol-starter-3d-drawing.eps |

| | |
|---|---|
| **PROTECTION OF ASSEMBLIES** | entire switchgear needs to be evaluated. |
| **10.4 CLEARANCES AND CREEPAGE DISTANCES** | Meets the product standard's requirements. |
| **10.5 PROTECTION AGAINST ELECTRIC 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-FREQUENCY ELECTRIC STRENGTH** | Is the panel builder's responsibility. |
| **10.9.3 IMPULSE WITHSTAND VOLTAGE** | Is the panel builder's responsibility. |
| **10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL** | Is the panel builder's responsibility. |
| **FITTED WITH:** | Short-circuit release |
| **POLLUTION DEGREE** | 3 |
| **CLASS** | CLASS 10 A |
| **CONNECTION TO SMARTWIRE-DT** | No |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 6000 V AC |
| **MODEL** | IEC/UL starter |
| **ALTITUDE** | Max. 2000 m |
| **ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT** | Screw connection |
| **VOLTAGE TYPE** | DC |
| **MOUNTING METHOD** | DIN rail |
| **OVERVOLTAGE CATEGORY** | III |
| **CONNECTION** | Screw terminals |
| **FUNCTIONS** | Temperature compensated overload protection |
| **OVERLOAD RELEASE CURRENT SETTING - MIN** | 8 A |
| **POWER CONSUMPTION** | 2.6 W |

| | |
|---|---|
| **(SEALING) AT DC** | |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V** | 0 A |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V** | 50 A |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V** | 0 A |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V** | 0 A |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX** | 24 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN** | 24 V |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V** | 12 A |
| **SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)** | 15 A, 600 V AC, (UL/CSA)<br>1 A, 250 V DC, (UL/CSA) |
| **SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)** | A600, AC operated (UL/CSA)<br>P300, DC operated (UL/CSA) |
| **RATED OPERATIONAL CURRENT (IE)** | 11.3 A |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 12 A |
| **RATED OPERATIONAL** | 230 - 415 V AC |

| | |
|---|---|
| **VOLTAGE** | |
| **SUITABLE FOR** | Also motors with efficiency class IE3 |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 55 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **COORDINATION TYPE** | 1 |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 9.9 W |
| **HEAT DISSIPATION CAPACITY PDISS** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID** | 3.3 W |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)** | 0 |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)** | 1 |
| **NUMBER OF COMMAND POSITIONS** | 0 |
| **NUMBER OF PILOT LIGHTS** | 0 |
| **OVERLOAD RELEASE CURRENT SETTING - MAX** | 12 A |
| **RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ** | 3 kW |
| **RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ** | 5.5 kW |
| **RATED POWER AT 460 V, 60 HZ, 3-PHASE** | 0 kW |
| **RATED POWER AT 575 V, 60 HZ, 3-PHASE** | 0 kW |
| **SHORT-CIRCUIT RELEASE (IRM) - MAX** | 186 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 2.6 W |
| **COORDINATION CLASS (IEC 60947-4-3)** | Class 1 |
| **DEGREE OF PROTECTION** | IP20<br>NEMA Other |

| | |
|---|---|
| **ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT** | Screw connection |
| **ACTUATING VOLTAGE** | 24 V DC |
| **POWER CONSUMPTION** | 2.6 W |

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

Eaton House
30 Pembroke Road
Dublin 4,
Eaton.com



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