



Eaton 102956

Eaton Moeller® series MSC-D DOL starter,
380 V 400 V 415 V: 4 kW, Ir= 6.3 - 10 A, 230 V
50 Hz, 240 V 60 Hz, AC voltage MSC-D-10-
M9(230V50HZ)/BBA

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| PRODUCT NAME | Eaton Moeller® series MSC-D DOL starter |
| CATALOG NUMBER | 102956 |
| PRODUCT LENGTH/DEPTH | 154 mm |
| PRODUCT HEIGHT | 200 mm |
| PRODUCT WIDTH | 45 mm |
| PRODUCT WEIGHT | 0.875 kg |
| CERTIFICATIONS | CSA UL Category Control No.: NKJH UL File No.: E123500 CSA-C22.2 No. 14 (on request) CE CSA Class No.: 3211-04 CSA File No.: 012528 UL 508 (on request) UL UL60947-4-1A IEC/EN 60947-4-1 CSA-C22.2 No. 14-10 |

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| 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 PROTECTION OF ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 CLEARANCES AND | Meets the product |

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| DECLARATIONS OF CONFORMITY | eaton-dol-starter-declaration-of-conformity-uk251156en.pdf |
| □□□□□ | IL034014ZU IL034038ZU IL03402015Z |
| □□□ | 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-adapter-msc-d-dol-starter-dimensions.eps |

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| CREEPAGE DISTANCES | 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 | AC |
| MOUNTING METHOD | Mounting on Busbar 60 mm |
| OVERVOLTAGE CATEGORY | III |
| CONNECTION | Screw terminals |
| FUNCTIONS | Temperature compensated overload protection |
| OVERLOAD RELEASE CURRENT SETTING - MIN | 6.3 A |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V | 0 A |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, | 100 A |

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| 415 V | |
| 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 | 230 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN | 230 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 | 0 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN | 0 V |
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V | 9 A |
| POWER CONSUMPTION, SEALING, 50 HZ | 1.2 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE) | 15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY) | A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) |
| RATED OPERATIONAL CURRENT (IE) | 8.5 A |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 9 A |
| RATED OPERATIONAL VOLTAGE | 230 - 415 V AC |
| SUITABLE FOR | Also motors with efficiency class IE3 |
| AMBIENT OPERATING TEMPERATURE - MAX | 55 °C |
| AMBIENT OPERATING | -25 °C |

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| TEMPERATURE - MIN | |
| COORDINATION TYPE | 1 |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 8.4 W |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID | 2.8 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 | 10 A |
| RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ | 2.2 kW |
| RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ | 4 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 | 155 A |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 1.4 W |
| COORDINATION CLASS (IEC 60947-4-3) | Class 1 |
| DEGREE OF PROTECTION | IP20 NEMA Other |
| ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT | Screw connection |
| ACTUATING VOLTAGE | 230 V 50 Hz 240 V 60 Hz |
| POWER CONSUMPTION | 1.4 W |

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