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Eaton 199578

Eaton Moeller® series MSC-D DOL starter,
380 V 400 V 415 V: 1.1, 1.5 kW, Ir= 2.5 - 4 A,
24 V DC, DC, Push in terminals

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| PRODUCT NAME | Eaton Moeller® series MSC-D DOL starter |
| CATALOG NUMBER | 199578 |
| PRODUCT LENGTH/DEPTH | 95 mm |
| PRODUCT HEIGHT | 197 mm |
| PRODUCT WIDTH | 45 mm |
| PRODUCT WEIGHT | 0.665 kg |
| CERTIFICATIONS | IEC/EN 60947-4-1 VDE 0660 |
| CATALOG NOTES | Also suitable for motors with efficiency class IE3. |



Powering Business Worldwide

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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 |
| MCAD MODEL | eaton-iec-motor-starter-electronic-overload-mcad-3d-models-msc-d-bg1-pi.stp msc_d_bg1_pi.dwg |
| □□□□ | eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf |
| □□ | eaton-manual-motor-starters-motorsarter-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 | Spring clamp connection |
| VOLTAGE TYPE | DC |
| MOUNTING METHOD | DIN rail |
| OVERVOLTAGE CATEGORY | III |
| CONNECTION | Push in terminals |
| FUNCTIONS | Temperature compensated overload protection |
| OVERLOAD RELEASE CURRENT SETTING - MIN | 2.5 A |
| POWER CONSUMPTION (SEALING) AT DC | 2.6 W |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V | 50 A |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT | 50 A |

(IQ), TYPE 2, 380 V, 400 V,
415 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** 4 A

**RATED OPERATIONAL
CURRENT (IE)** 3.6 A

**RATED OPERATIONAL
VOLTAGE** 230 - 415 V AC

SUITABLE FOR Also motors with efficiency
class IE3

**AMBIENT OPERATING
TEMPERATURE - MAX** 55 °C

**AMBIENT OPERATING
TEMPERATURE - MIN** -25 °C

COORDINATION TYPE 2

**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** 4 A

**RATED OPERATIONAL
POWER AT AC-3, 220/230
V, 50 HZ** 0.75 kW

**RATED OPERATIONAL
POWER AT AC-3, 380/400
V, 50 HZ** 1.5 kW

**SHORT-CIRCUIT RELEASE
(IRM) - MAX** 62 A

**COORDINATION CLASS
(IEC 60947-4-3)** Class 2

DEGREE OF PROTECTION IP20
NEMA Other

**ELECTRICAL
CONNECTION TYPE FOR
AUXILIARY- AND
CONTROL-CURRENT
CIRCUIT** Spring clamp connection
