



Eaton 077250

Eaton Moeller® series TM ON-OFF switches, TM, 10 A, flush mounting, 2 contact unit(s), Contacts: 4, 90 °, maintained, With 0 (Off) position, 0-1, Design number 8293

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| PRODUCT NAME | Eaton Moeller® series TM On-off switch |
| CATALOG NUMBER | 077250 |
| PRODUCT LENGTH/DEPTH | 74 mm |
| PRODUCT HEIGHT | 30 mm |
| PRODUCT WIDTH | 30 mm |
| PRODUCT WEIGHT | 0.038 kg |
| CERTIFICATIONS | Certified by UL for use in Canada CE UL report applies to both US and Canada UL File No.: E36332 IEC/EN 60947-5-1 VDE 0660 UL Category Control No.: NLRV CSA CSA-C22.2 No. 14-05 IEC/EN 60947-3 UL 508 IEC/EN 60947 CSA-C22.2 No. 94 UL |



Powering Business Worldwide

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| TYPE | ON-OFF switch |
| PRODUCT CATEGORY | Control switches |
| ACTUATOR COLOR | Black |
| ACTUATOR FUNCTION | With 0 (Off) position Maintained |
| 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 | UV resistance only in connection with protective shield. |
| 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. |

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| DECLARATIONS OF CONFORMITY | eaton-step-switch-declaration-of-conformity-uk251335en.pdf |
| □□□□□ | IL03801025Z |
| □□□ | eaton-rotary-switches-switch-dmm-switch-disconnector-wiring-diagram.eps |
| □□ | eaton-rotary-switches-mounting-tm-step-switch-dimensions-006.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions.eps eaton-rotary-switches-front-plate-tm-on-off-switch-symbol.eps |

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| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Does not apply, since the 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: | Black thumb grip and front plate |
| OPERATING FREQUENCY | 1200 Operations/h |
| POLLUTION DEGREE | 3 |
| CLIMATIC PROOFING | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 4000 V AC |
| RATED UNINTERRUPTED CURRENT (IU) | 10 A |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 0 W |
| SWITCHING ANGLE | 90 ° |
| DEVICE CONSTRUCTION | Built-in device fixed built-in technique |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT | Screw connection |
| MOUNTING POSITION | As required |
| ACTUATOR TYPE | Short thumb-grip |
| AMBIENT OPERATING TEMPERATURE - MAX | 50 °C |

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| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE | 0.33 HP |
| ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 3-PHASE | 0.75 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE | 0.75 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE | 1 HP |
| ASSIGNED MOTOR POWER AT 277 V, 60 HZ, 1-PHASE | 0.75 HP |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 0 W |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID | 0.15 W |
| NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS) | 0 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
| OVERVOLTAGE CATEGORY | III |
| CONTROL CIRCUIT RELIABILITY | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| DEGREE OF PROTECTION (FRONT SIDE) | IP65 |
| NUMBER OF POLES | 4 |
| MOUNTING METHOD | Flush mounting |
| DEGREE OF PROTECTION | NEMA 12 |
| SUITABLE FOR | Front mounting 4-hole |
| NUMBER OF SWITCHES | 1 |
| SCREW SIZE | M2.5, Terminal screw |
| INSCRIPTION | 0-1 |
| LIFESPAN, MECHANICAL | 1,000,000 Operations |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE) | 10A, IU, (UL/CSA) |

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| SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY) | A300 (UL/CSA) |
| TERMINAL CAPACITY | 2 x 1,5 mm ² , solid or stranded 1 x 1.5 mm ² , flexible 14 AWG, solid or flexible with ferrule 2 x 1.0 mm ² , flexible with ferrules to DIN 46228 2 x 1.5 mm ² , flexible 1 x 1.0 mm ² , flexible with ferrules to DIN 46228 1 x 1.5 mm ² , solid or stranded |
| SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE) | 10 A, Rated uninterrupted current max. (UL/CSA) |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 0 |
| NUMBER OF CONTACT UNITS | 2 |
| RATED OPERATING VOLTAGE (UE) - MAX | 500 V |
| RATED OPERATING VOLTAGE (UE) - MIN | 500 V |
| RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX | 500 V |
| SHORT-CIRCUIT PROTECTION RATING | 10 A gG/gL, Fuse, Contacts |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 10 A |
| RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ | 3 kW |
| TIGHTENING TORQUE | 0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals |
| UNINTERRUPTED CURRENT | Rated uninterrupted current I _u is specified for max. cross-section. |
| HOUSING COLOR | Black |
| HOUSING MATERIAL | Plastic |

