# Eaton 207110

Eaton Moeller® series T0 On-Off switch, T0, 20 A, surface mounting, 2 contact unit(s), 3 pole + N, Emergency switching off function, with red thumb grip and yellow front plate

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| **PRODUCT NAME** | Eaton Moeller® series T0 On-off switch |
| **CATALOG NUMBER** | 207110 |
| **PRODUCT LENGTH/DEPTH** | 137 mm |
| **PRODUCT HEIGHT** | 102 mm |
| **PRODUCT WIDTH** | 80 mm |
| **PRODUCT WEIGHT** | 0.264 kg |
| **CERTIFICATIONS** | IEC/EN 60947-3<br>IEC/EN 60204<br>IEC/EN 60947<br>VDE 0660 |
| **CATALOG NOTES** | Rated Short-time Withstand Current (Icw) for a time of 1 second |

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| **PRODUCT CATEGORY** | On-Off switch |
| **FEATURES** | Version as emergency stop installation |
| **ACTUATOR COLOR** | Red |
| **ACTUATOR FUNCTION** | 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-main-switch-declaration-of-conformity-uk251328en.pdf |
| □□□□□ | IL038010072021_06.pdf |
| □□□ | eaton-rotary-switches-t0-on-off-switch-wiring-diagram-067.eps |
| □□ | eaton-rotary-switches-t0-changeover-switch-dimensions.eps<br><br>eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-003.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:** | Red thumb grip and yellow front plate |
| **OPERATING FREQUENCY** | 1200 Operations/h |
| **POLLUTION DEGREE** | 3 |
| **CLIMATIC PROOFING** | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 6000 V AC |
| **RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ** | 7.5 kW |
| **RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ** | 5.5 kW |
| **RATED PERMANENT CURRENT AT AC-21, 400 V** | 20 A |
| **RATED PERMANENT CURRENT AT AC-23, 400 V** | 13.3 A |
| **RATED UNINTERRUPTED CURRENT (IU)** | 20 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |

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| **SWITCHING ANGLE** | 90 ° |
| **SWITCHING POWER AT 400 V** | 5.5 kW |
| **VOLTAGE PER CONTACT PAIR IN SERIES** | 60 V |
| **DEVICE CONSTRUCTION** | Complete device in housing |
| **RATED SHORT-TIME WITHSTAND CURRENT (ICW)** | 0.32 kA<br>320 A, Contacts, 1 second |
| **ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT** | Screw connection |
| **MOUNTING POSITION** | As required |
| **ACTUATOR TYPE** | Short thumb-grip |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 40 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX** | 40 °C |
| **AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN** | -25 °C |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 0 W |
| **HEAT DISSIPATION CAPACITY PDISS** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID** | 0.6 W |
| **NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)** | 0 |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)** | 0 |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** | 6 kA |
| **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 |

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| **MOUNTING METHOD** | Surface mounting |
| **DEGREE OF PROTECTION** | NEMA 12 |
| **SUITABLE FOR** | Ground mounting |
| **FUNCTIONS** | Emergency switching off function |
| **NUMBER OF SWITCHES** | 1 |
| **SAFE ISOLATION** | 440 V AC, Between the contacts, According to EN 61140 |
| **SCREW SIZE** | M3.5, Terminal screw |
| **INSCRIPTION** | 0-1 |
| **SHOCK RESISTANCE** | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms |
| **LIFESPAN, MECHANICAL** | 400,000 Operations |
| **LOAD RATING** | 2 x $I_e$ (with intermittent operation class 12, 25 % duty factor)<br>1.6 x $I_e$ (with intermittent operation class 12, 40 % duty factor)<br>1.3 x $I_e$ (with intermittent operation class 12, 60 % duty factor) |
| **TERMINAL CAPACITY** | 2 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228<br>1 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228<br>1 x (1 - 2.5) mm², solid or stranded<br>2 x (1 - 2.5) mm², solid or stranded |
| **SAFETY PARAMETER (EN ISO 13849-1)** | B10d values as per EN ISO 13849-1, table C.1 |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)** | 0 |
| **NUMBER OF CONTACT UNITS** | 2 |
| **NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V** | 1 |
| **NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V** | 3 |
| **NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V** | 1 |
| **NUMBER OF CONTACTS IN SERIES AT DC-23A, 240** | 5 |

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| **V** | |
| **NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V** | 2 |
| **NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V** | 3 |
| **RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)** | 100 A |
| **RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)** | 110 A |
| **RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)** | 80 A |
| **RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)** | 60 A |
| **RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)** | 130 A |
| **RATED OPERATING VOLTAGE (UE) - MAX** | 690 V |
| **RATED OPERATING VOLTAGE (UE) - MIN** | 690 V |
| **RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX** | 690 V |
| **SHORT-CIRCUIT PROTECTION RATING** | 20 A gG/gL, Fuse, Contacts |
| **RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V** | 20 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V** | 13.3 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V** | 13.3 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V** | 13.3 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V** | 7.6 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V** | 11.5 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V** | 11.5 A |
| **RATED OPERATIONAL** | 9 A |

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| **CURRENT (IE) AT AC-3, 500 V** | |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V** | 4.9 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS** | 10 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS** | 10 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-21, 240 V** | 1 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V** | 5 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V** | 10 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V** | 5 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V** | 10 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V** | 10 A |
| **RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 220/230 V** | 20 A |
| **RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 380/400 V** | 20 A |
| **RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 500 V** | 15.6 A |
| **RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 690 V** | 8.5 A |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 20 A |
| **RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ** | 3 kW |
| **RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ** | 5.5 kW |
| **RATED OPERATIONAL** | 7.5 kW |

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| **POWER AT AC-23A, 500 V, 50 HZ** | |
| **RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ** | 5.5 kW |
| **RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ** | 5.5 kW |
| **RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ** | 5.5 kW |
| **RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ** | 4 kW |
| **RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ** | 5.5 kW |
| **RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ** | 7.5 kW |
| **TIGHTENING TORQUE** | 8.8 lb-in, Screw terminals<br>1 Nm, Screw terminals |
| **UNINTERRUPTED CURRENT** | Rated uninterrupted current Iu is specified for max. cross-section. |
| **HOUSING COLOR** | Gray |
| **HOUSING MATERIAL** | Plastic |

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

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