



Eaton 098181

Eaton Moeller® series T0
Changeoverswitches, T0, 20 A, service
distribution board mounting, 2 contact
unit(s), Contacts: 4, 90 °, maintained,
Without 0 (Off) position, HAND-AUTO,
Design number 15452

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| PRODUCT NAME | Eaton Moeller® series T0 Changeover switch |
| CATALOG NUMBER | 098181 |
| PRODUCT LENGTH/DEPTH | 92 mm |
| PRODUCT HEIGHT | 55 mm |
| PRODUCT WIDTH | 54 mm |
| PRODUCT WEIGHT | 0.12 kg |
| CERTIFICATIONS | CSA File No.: 012528 CSA CSA Class No.: 3211-05 UL Category Control No.: NLRV UL File No.: E36332 VDE 0660 CSA-C22.2 No. 94 IEC/EN 60947-3 UL UL 60947-4-1 CE IEC/EN 60947 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60204 |
| CATALOG NOTES | Rated Short-time Withstand Current (Icw) for a time of 1 second |

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| TYPE | Changeover switch |
| ACTUATOR FUNCTION | Without 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 | 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. |

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| DECLARATIONS OF CONFORMITY | eaton-step-switch-declaration-of-conformity-uk251327en.pdf |
| 00000 | IL03801006Z |
| 000 | eaton-rotary-switches-switch-t0-changeover-switch-wiring-diagram-006.eps |
| 00 | eaton-rotary-switches-mounting-t0-step-switch-dimensions-003.eps eaton-rotary-switches-mounting-t0-step-switch-dimensions.eps eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing.eps eaton-general-rotary-switch-t0-step-switch-symbol-005.eps eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-020.eps |

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| 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) | 6000 V AC |
| RATED UNINTERRUPTED CURRENT (IU) | 20 A |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 0 W |
| SWITCHING ANGLE | 90 ° |
| VOLTAGE PER CONTACT PAIR IN SERIES | 60 V |
| WIDTH IN NUMBER OF MODULAR SPACINGS | 4 |
| PRODUCT CATEGORY | Control switches |
| NUMBER OF POLES | Two-pole |
| RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ | 5.5 kW |
| DEVICE CONSTRUCTION | Built-in device |
| SWITCH TYPE | Reverser |

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| RATED SHORT-TIME WITHSTAND CURRENT (ICW) | 320 A, Contacts, 1 second |
| ACTUATOR TYPE | Toggle |
| AMBIENT OPERATING TEMPERATURE - MAX | 50 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN | -25 °C |
| ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE | 0.5 HP |
| ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE | 1 HP |
| ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE | 3 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE | 1.5 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE | 3 HP |
| ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE | 7.5 HP |
| ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE | 7.5 HP |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 0 W |
| MOUNTING POSITION | As required |
| MOUNTING METHOD | Service distribution board mounting |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) | 6 kA |
| DEGREE OF PROTECTION | IP30 |
| OVERVOLTAGE CATEGORY | III |
| CONTROL CIRCUIT RELIABILITY | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |

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| DEGREE OF PROTECTION (FRONT SIDE) | IP30 NEMA 2 |
| NUMBER OF CONTACTS | 4 |
| SUITABLE FOR | Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting Front mounting |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID | 0.6 W |
| 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 V | 5 |
| FRONT SHIELD SIZE | 48x48 mm |
| SAFE ISOLATION | 440 V AC, Between the contacts, According to EN 61140 |
| SCREW SIZE | M3.5, Terminal screw |
| INSCRIPTION | " HAND-AUTO " |
| SHOCK RESISTANCE | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms |
| LIFESPAN, MECHANICAL | 400,000 Operations |
| NUMBER OF SWITCH POSITIONS | 2 |
| LOAD RATING | 1.6 x I _e (with intermittent operation class 12, 40 % duty factor) 2 x I _e (with intermittent operation class 12, 25 % duty factor) 1.3 x I _e (with intermittent operation class 12, 60 % duty factor) |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, | 10A, IU, (UL/CSA) |

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| GENERAL USE) | |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY) | P300 (UL/CSA) A600 (UL/CSA) |
| 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) AT AC - MAX | 690 V |
| 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 CURRENT (IE) AT AC-3, 500 V | 9 A |
| RATED OPERATIONAL | 4.9 A |

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| CURRENT (IE) AT AC-3, 660 V, 690 V | |
| 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 |
| SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE) | 16 A, Rated uninterrupted current max. (UL/CSA) |
| SAFETY PARAMETER (EN ISO 13849-1) | B10d values as per EN ISO 13849-1, table C.1 |
| 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, 230 V | 20 A |
| RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 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, | 5.5 kW |

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| 50 HZ | |
| RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ | 7.5 kW |
| RATED OPERATIONAL POWER AT AC-23A, 690 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 |
| 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 |
| TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) | 1 x (0.75 - 2.5) mm ² , ferrules to DIN 46228 2 x (0.75 - 2.5) mm ² , ferrules to DIN 46228 |
| SHORT-CIRCUIT CURRENT RATING (BASIC RATING) | 50A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA) |
| SHORT-CIRCUIT CURRENT RATING (HIGH FAULT) | 10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA) |
| SHORT-CIRCUIT PROTECTION RATING | 20 A gG/gL, Fuse, Contacts |
| TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG) | 18 - 14 |
| TERMINAL CAPACITY (SOLID/STRANDED) | 1 x (1 - 2.5) mm ² 2 x (1 - 2.5) mm ² |
| TIGHTENING TORQUE | 8.8 lb-in, Screw terminals 1 Nm, Screw terminals |
| UNINTERRUPTED CURRENT | Rated uninterrupted current I _u is specified for max. cross-section. |
| DESIGN | 15452 |

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