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## Eaton 012909

Eaton Moeller series T0 Changeover switch,  
20 A, Flush mounting, 3 contact unit(s),  
Contacts: 6, Maintained, 1-0-2, Design:  
15098

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| <b>PRODUCT NAME</b>             | Eaton Moeller® series T0<br>Changeover switch                                                                                                                                                                                                                    |
| <b>CATALOG NUMBER</b>           | 012909                                                                                                                                                                                                                                                           |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 95 mm                                                                                                                                                                                                                                                            |
| <b>PRODUCT HEIGHT</b>           | 48 mm                                                                                                                                                                                                                                                            |
| <b>PRODUCT WIDTH</b>            | 48 mm                                                                                                                                                                                                                                                            |
| <b>PRODUCT WEIGHT</b>           | 0.127 kg                                                                                                                                                                                                                                                         |
| <b>CERTIFICATIONS</b>           | CSA-C22.2 No. 60947-4-1-<br>14<br>CSA-C22.2 No. 94<br>UL Category Control No.:<br>NLRV<br>IEC/EN 60947<br>CSA<br>CSA Class No.: 3211-05<br>IEC/EN 60204<br>VDE 0660<br>IEC/EN 60947-3<br>CE<br>UL File No.: E36332<br>UL<br>UL 60947-4-1<br>CSA File No.: 012528 |
| <b>CATALOG NOTES</b>            | Rated Short-time<br>Withstand Current (Icw)<br>for a time of 1 second                                                                                                                                                                                            |

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| <b>TYPE</b>                                                                             | Changeover switch                                                                                                                |
| <b>ACTUATOR FUNCTION</b>                                                                | With 0 (Off) position Maintained                                                                                                 |
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | UV resistance only in connection with protective shield.                                                                         |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |

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| DECLARATIONS OF CONFORMITY | <a href="#">eaton-step-switch-declaration-of-conformity-uk251327en.pdf</a>                                                                                                |
| 00000                      | <a href="#">IL03801020Z</a>                                                                                                                                               |
| 000                        | <a href="#">eaton-rotary-switches-t0-changeover-switch-wiring-diagram-055.eps</a><br><a href="#">eaton-rotary-switches-t0-changeover-switch-wiring-diagram-056.eps</a>    |
| 00                         | <a href="#">eaton-rotary-switches-mounting-t0-step-switch-dimensions-026.eps</a><br><a href="#">eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps</a> |

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| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                     |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                         |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                         |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                         |
| <b>FITTED WITH:</b>                                             | 0 (off) position<br>Black thumb grip and front plate                           |
| <b>OPERATING FREQUENCY</b>                                      | 1200 Operations/h                                                              |
| <b>POLLUTION DEGREE</b>                                         | 3                                                                              |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 6000 V AC                                                                      |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                         | 20 A                                                                           |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>       | 0 W                                                                            |
| <b>SWITCHING ANGLE</b>                                          | 45 °                                                                           |
| <b>VOLTAGE PER CONTACT PAIR IN SERIES</b>                       | 60 V                                                                           |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>                      | 0                                                                              |
| <b>PRODUCT CATEGORY</b>                                         | Control switches                                                               |
| <b>NUMBER OF POLES</b>                                          | Two-pole                                                                       |
| <b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>            | 5.5 kW                                                                         |
| <b>DEVICE CONSTRUCTION</b>                                      | Built-in device                                                                |
| <b>SWITCH TYPE</b>                                              | Reverser                                                                       |

|                                                           |                                                                                         |
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| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>           | 320 A, Contacts, 1 second                                                               |
| <b>ACTUATOR TYPE</b>                                      | Toggle                                                                                  |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                | 50 °C                                                                                   |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                | -25 °C                                                                                  |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>     | 40 °C                                                                                   |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>     | -25 °C                                                                                  |
| <b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>  | 0.5 HP                                                                                  |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE</b>  | 1 HP                                                                                    |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>  | 3 HP                                                                                    |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>  | 1.5 HP                                                                                  |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>  | 3 HP                                                                                    |
| <b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>  | 7.5 HP                                                                                  |
| <b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>  | 7.5 HP                                                                                  |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b> | 0 W                                                                                     |
| <b>MOUNTING POSITION</b>                                  | As required                                                                             |
| <b>MOUNTING METHOD</b>                                    | Flush mounting                                                                          |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>       | 6 kA                                                                                    |
| <b>DEGREE OF PROTECTION</b>                               | NEMA 1<br>NEMA 12<br>IP65                                                               |
| <b>OVERVOLTAGE CATEGORY</b>                               | III                                                                                     |
| <b>CONTROL CIRCUIT RELIABILITY</b>                        | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |

|                                                                     |                                                                                                                                                                                                                                                                 |
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| <b>DEGREE OF PROTECTION<br/>(FRONT SIDE)</b>                        | IP65<br>NEMA 12                                                                                                                                                                                                                                                 |
| <b>NUMBER OF CONTACTS</b>                                           | 6                                                                                                                                                                                                                                                               |
| <b>SUITABLE FOR</b>                                                 | Branch circuits, suitable as<br>motor disconnect,<br>(UL/CSA)<br>Front mounting                                                                                                                                                                                 |
| <b>HEAT DISSIPATION<br/>CAPACITY PDISS</b>                          | 0 W                                                                                                                                                                                                                                                             |
| <b>HEAT DISSIPATION PER<br/>POLE, CURRENT-<br/>DEPENDENT PVID</b>   | 0.6 W                                                                                                                                                                                                                                                           |
| <b>NUMBER OF CONTACT<br/>UNITS</b>                                  | 3                                                                                                                                                                                                                                                               |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-21A, 240<br/>V</b>        | 1                                                                                                                                                                                                                                                               |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 120<br/>V</b>        | 3                                                                                                                                                                                                                                                               |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 24 V</b>             | 1                                                                                                                                                                                                                                                               |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 240<br/>V</b>        | 5                                                                                                                                                                                                                                                               |
| <b>FRONT SHIELD SIZE</b>                                            | 48x48 mm                                                                                                                                                                                                                                                        |
| <b>SAFE ISOLATION</b>                                               | 440 V AC, Between the<br>contacts, According to EN<br>61140                                                                                                                                                                                                     |
| <b>SCREW SIZE</b>                                                   | M3.5, Terminal screw                                                                                                                                                                                                                                            |
| <b>INSCRIPTION</b>                                                  | 1-0-2                                                                                                                                                                                                                                                           |
| <b>SHOCK RESISTANCE</b>                                             | 15 g, Mechanical,<br>According to IEC/EN<br>60068-2-27, Half-<br>sinusoidal shock 20 ms                                                                                                                                                                         |
| <b>LIFESPAN, MECHANICAL</b>                                         | 400,000 Operations                                                                                                                                                                                                                                              |
| <b>NUMBER OF SWITCH<br/>POSITIONS</b>                               | 3                                                                                                                                                                                                                                                               |
| <b>LOAD RATING</b>                                                  | 2 x I <sub>e</sub> (with intermittent<br>operation class 12, 25 %<br>duty factor)<br>1.3 x I <sub>e</sub> (with intermittent<br>operation class 12, 60 %<br>duty factor)<br>1.6 x I <sub>e</sub> (with intermittent<br>operation class 12, 40 %<br>duty factor) |
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>GENERAL USE)</b> | 10A, IU, (UL/CSA)                                                                                                                                                                                                                                               |
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,</b>                  | P300 (UL/CSA)<br>A600 (UL/CSA)                                                                                                                                                                                                                                  |

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| <b>PILOT DUTY)</b>                                                               |        |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 48 V</b>                          | 2      |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 60 V</b>                          | 3      |
| <b>RATED BREAKING<br/>CAPACITY AT 220/230 V<br/>(COS PHI TO IEC 60947-3)</b>     | 100 A  |
| <b>RATED BREAKING<br/>CAPACITY AT 400/415 V<br/>(COS PHI TO IEC 60947-3)</b>     | 110 A  |
| <b>RATED BREAKING<br/>CAPACITY AT 500 V (COS<br/>PHI TO IEC 60947-3)</b>         | 80 A   |
| <b>RATED BREAKING<br/>CAPACITY AT 660/690 V<br/>(COS PHI TO IEC 60947-3)</b>     | 60 A   |
| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN<br/>60947-3)</b> | 130 A  |
| <b>RATED OPERATING<br/>VOLTAGE (UE) AT AC -<br/>MAX</b>                          | 690 V  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-21,<br/>440 V</b>                    | 20 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>230 V</b>                   | 13.3 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>400 V, 415 V</b>            | 13.3 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>500 V</b>                   | 13.3 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>690 V</b>                   | 7.6 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>       | 11.5 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>       | 11.5 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                     | 9 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>              | 4.9 A  |
| <b>RATED OPERATIONAL</b>                                                         | 10 A   |

|                                                                                          |                                                    |
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| <b>CURRENT (IE) AT DC-1,<br/>LOAD-BREAK SWITCHES<br/>L/R = 1 MS</b>                      |                                                    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-13,<br/>CONTROL SWITCHES L/R<br/>= 50 MS</b> | 10 A                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-21,<br/>240 V</b>                            | 1 A                                                |
| <b>SWITCHING CAPACITY<br/>(MAIN CONTACTS,<br/>GENERAL USE)</b>                           | 16 A, Rated uninterrupted<br>current max. (UL/CSA) |
| <b>SAFETY PARAMETER (EN<br/>ISO 13849-1)</b>                                             | B10d values as per EN ISO<br>13849-1, table C.1    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>120 V</b>                           | 5 A                                                |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>24 V</b>                            | 10 A                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>240 V</b>                           | 5 A                                                |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>48 V</b>                            | 10 A                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>                            | 10 A                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 230 V</b>                 | 20 A                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 400 V</b>                 | 20 A                                               |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 500 V</b>                 | 15.6 A                                             |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 690 V</b>                 | 8.5 A                                              |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b>             | 20 A                                               |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A,<br/>220/230 V, 50 HZ</b>                       | 3 kW                                               |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 400 V,<br/>50 HZ</b>                           | 5.5 kW                                             |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 500 V,</b>                                     | 7.5 kW                                             |

|                                                               |                                                                                                                      |
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| <b>50 HZ</b>                                                  |                                                                                                                      |
| <b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>        | 5.5 kW                                                                                                               |
| <b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>          | 5.5 kW                                                                                                               |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>          | 4 kW                                                                                                                 |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ</b> | 5.5 kW                                                                                                               |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ</b> | 7.5 kW                                                                                                               |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ</b>     | 7.5 kW                                                                                                               |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ</b>     | 5.5 kW                                                                                                               |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>              | 2 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228<br>1 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228 |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>            | 5 kA, SCCR (UL/CSA)<br>50A, max. Fuse, SCCR (UL/CSA)                                                                 |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)</b>              | 20 A, Class J, max. Fuse, SCCR (UL/CSA)<br>10 kA, SCCR (UL/CSA)                                                      |
| <b>SHORT-CIRCUIT PROTECTION RATING</b>                        | 20 A gG/gL, Fuse, Contacts                                                                                           |
| <b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)</b>    | 18 - 14                                                                                                              |
| <b>TERMINAL CAPACITY (SOLID/STRANDED)</b>                     | 2 x (1 - 2.5) mm <sup>2</sup><br>1 x (1 - 2.5) mm <sup>2</sup>                                                       |
| <b>TIGHTENING TORQUE</b>                                      | 8.8 lb-in, Screw terminals<br>1 Nm, Screw terminals                                                                  |
| <b>UNINTERRUPTED CURRENT</b>                                  | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.                                      |
| <b>DESIGN</b>                                                 | 15098                                                                                                                |

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



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