

## Eaton 024623

Eaton Moeller® series T0 Step switches, T0, 20 A, flush mounting, 3 contact unit(s), Contacts: 6, 90 °, maintained, With 0 (Off) position, 0-1-1+2-2, Design number 15115

|                             |                                                                                                                                                                                                                                                           |
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| <b>PRODUCT NAME</b>         | Eaton Moeller® series T0 Step switch                                                                                                                                                                                                                      |
| <b>CATALOG NUMBER</b>       | 024623                                                                                                                                                                                                                                                    |
| <b>PRODUCT 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 File No.: 012528<br>CSA-C22.2 No. 94<br>CSA Class No.: 3211-05<br>CSA-C22.2 No. 60947-4-1-14<br>IEC/EN 60947<br>UL 60947-4-1<br>UL Category Control No.: NLRV<br>IEC/EN 60947-3<br>CE<br>IEC/EN 60204<br>VDE 0660<br>CSA<br>UL<br>UL File No.: E36332 |
| <b>CATALOG NOTES</b>        | Rated Short-time Withstand Current (Icw) for a time of 1 second                                                                                                                                                                                           |

| <b>TYPE</b>                                                                             | Step switch                                                                                                                      |
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| <b>PRODUCT CATEGORY</b>                                                                 | Control switches                                                                                                                 |
| <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                                                                                                                |

|  | <a href="#">IL03801020Z</a>                                                      |
|--|----------------------------------------------------------------------------------|
|  | <a href="#">eaton-rotary-switches-t0-step-switch-wiring-diagram-222.eps</a>      |
|  | <a href="#">eaton-rotary-switches-t0-step-switch-wiring-diagram-221.eps</a>      |
|  | <a href="#">eaton-rotary-switches-mounting-t0-step-switch-dimensions-026.eps</a> |
|  | <a href="#">eaton-rotary-switches-front-plate-t0-step-switch-symbol-018.eps</a>  |

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|                                                                 | standard's requirements.                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated.             |
| <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, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| <b>ENCLOSURE MATERIAL</b>                                       | Plastic                                                                        |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 6000 V AC                                                                      |
| <b>ACTUATOR TYPE</b>                                            | Short thumb-grip                                                               |
| <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</b>                            | -25 °C                                                                         |

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| <b>(ENCLOSED) - MIN</b>                                                |                           |
| <b>ASSIGNED MOTOR<br/>POWER AT 115/120 V, 60<br/>HZ, 1-PHASE</b>       | 0.5 HP                    |
| <b>ASSIGNED MOTOR<br/>POWER AT 200/208 V, 60<br/>HZ, 1-PHASE</b>       | 1 HP                      |
| <b>ASSIGNED MOTOR<br/>POWER AT 200/208 V, 60<br/>HZ, 3-PHASE</b>       | 3 HP                      |
| <b>ASSIGNED MOTOR<br/>POWER AT 230/240 V, 60<br/>HZ, 1-PHASE</b>       | 1.5 HP                    |
| <b>ASSIGNED MOTOR<br/>POWER AT 230/240 V, 60<br/>HZ, 3-PHASE</b>       | 3 HP                      |
| <b>ASSIGNED MOTOR<br/>POWER AT 460/480 V, 60<br/>HZ, 3-PHASE</b>       | 7.5 HP                    |
| <b>ASSIGNED MOTOR<br/>POWER AT 575/600 V, 60<br/>HZ, 3-PHASE</b>       | 7.5 HP                    |
| <b>EQUIPMENT HEAT<br/>DISSIPATION, CURRENT-<br/>DEPENDENT PVID</b>     | 0 W                       |
| <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 AUXILIARY<br/>CONTACTS (CHANGE-<br/>OVER CONTACTS)</b>    | 0                         |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (NORMALLY<br/>CLOSED CONTACTS)</b> | 0                         |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (NORMALLY<br/>OPEN CONTACTS)</b>   | 0                         |
| <b>NUMBER OF CONTACT<br/>UNITS</b>                                     | 3                         |
| <b>RATED SHORT-TIME<br/>WITHSTAND CURRENT<br/>(ICW)</b>                | 320 A, Contacts, 1 second |
| <b>ELECTRICAL<br/>CONNECTION TYPE OF<br/>MAIN CIRCUIT</b>              | Screw connection          |
| <b>MOUNTING POSITION</b>                                               | As required               |
| <b>RATED CONDITIONAL</b>                                               | 6 kA                      |

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| <b>SHORT-CIRCUIT CURRENT (IQ)</b>                           |                                                                                                                                                                                                                                               |
| <b>MOUNTING METHOD</b>                                      | Flush mounting                                                                                                                                                                                                                                |
| <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)                                                                                                                                                       |
| <b>NUMBER OF POLES</b>                                      | 3                                                                                                                                                                                                                                             |
| <b>DEGREE OF PROTECTION</b>                                 | NEMA 1<br>IP65<br>NEMA 12                                                                                                                                                                                                                     |
| <b>NUMBER OF CONTACTS</b>                                   | 6                                                                                                                                                                                                                                             |
| <b>MODEL</b>                                                | On/Off switch                                                                                                                                                                                                                                 |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>                    | IP65<br>NEMA 12                                                                                                                                                                                                                               |
| <b>INSCRIPTION</b>                                          | 0-1-1+2-2                                                                                                                                                                                                                                     |
| <b>LIFESPAN, MECHANICAL</b>                                 | 400,000 Operations                                                                                                                                                                                                                            |
| <b>SAFE ISOLATION</b>                                       | 440 V AC, Between the contacts, According to EN 61140                                                                                                                                                                                         |
| <b>RATED OPERATIONAL CURRENT (IE)</b>                       | 8.5 A at AC-3, 690 V star-delta<br>15.6 A at AC-3, 500 V star-delta<br>20 A at AC-3, 230 V star-delta<br>20 A at AC-3, 400 V star-delta                                                                                                       |
| <b>SCREW SIZE</b>                                           | M3.5, Terminal screw                                                                                                                                                                                                                          |
| <b>SHOCK RESISTANCE</b>                                     | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms                                                                                                                                                                 |
| <b>LOAD RATING</b>                                          | 1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)<br>2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)<br>1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor) |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b> | 10A, IU, (UL/CSA)                                                                                                                                                                                                                             |
| <b>TIGHTENING TORQUE</b>                                    | 8.8 lb-in, Screw terminals<br>1 Nm, Screw terminals                                                                                                                                                                                           |

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| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>PILOT DUTY)</b>               | A600 (UL/CSA)<br>P300 (UL/CSA) |
| <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>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 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</b>                                                         | 11.5 A                         |

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| <b>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>                                      |                                                                                                                            |
| <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>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>SHORT-CIRCUIT<br/>PROTECTION RATING</b>                                                | 20 A gG/gL, Fuse, Contacts                                                                                                 |
| <b>TERMINAL CAPACITY<br/>(FLEXIBLE WITH<br/>FERRULE)</b>                                  | 1 x (0.75 - 2.5) mm <sup>2</sup> ,<br>ferrules to DIN 46228<br>2 x (0.75 - 2.5) mm <sup>2</sup> ,<br>ferrules to DIN 46228 |
| <b>SUITABLE FOR</b>                                                                       | Branch circuits, suitable as<br>motor disconnect,<br>(UL/CSA)<br>Front mounting                                            |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>LOAD-BREAK SWITCHES<br/>L/R = 1 MS</b> | 10 A                                                                                                                       |
| <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>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</b>                                                                  | 10 A                                                                                                                       |

|                                                                              |        |
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| <b>CURRENT (IE) AT DC-23A,<br/>60 V</b>                                      |        |
| <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,<br/>50 HZ</b>               | 7.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 690 V,<br/>50 HZ</b>               | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>             | 4 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>                 | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 690 V, 50<br/>HZ</b>                 | 4 kW   |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT<br/>220/230 V, 50 HZ</b>        | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT<br/>380/400 V, 50 HZ</b>        | 7.5 kW |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT<br/>500 V, 50 HZ</b>            | 7.5 kW |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT<br/>690 V, 50 HZ</b>            | 5.5 kW |
| <b>RATED OPERATIONAL<br/>VOLTAGE (UE) AT AC -<br/>MAX</b>                    | 690 V  |
| <b>RATED UNINTERRUPTED<br/>CURRENT (IU)</b>                                  | 20 A   |
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT<br/>PVS</b>       | 0 W    |
| <b>SWITCHING ANGLE</b>                                                       | 90 °   |
| <b>VOLTAGE PER CONTACT<br/>PAIR IN SERIES</b>                                | 60 V   |

|                                                            |                                                                                 |
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| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)</b>           | 10 kA, SCCR (UL/CSA)<br>20 A, Class J, max. Fuse, SCCR (UL/CSA)                 |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>         | 5 kA, SCCR (UL/CSA)<br>50A, max. Fuse, SCCR (UL/CSA)                            |
| <b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)</b> | 18 - 14                                                                         |
| <b>TERMINAL CAPACITY (SOLID/STRANDED)</b>                  | 1 x (1 - 2.5) mm <sup>2</sup><br>2 x (1 - 2.5) mm <sup>2</sup>                  |
| <b>UNINTERRUPTED CURRENT</b>                               | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |
| <b>DESIGN</b>                                              | 15115                                                                           |

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| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| :                      |



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