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## Eaton 041234

Eaton Moeller® series T0 Voltmeter selector switch, 20 A, center mounting, 2 contact units, Contacts: 4, 45 °, maintained, 0 (Off) position, 0-Phase/Phase, Design no. 15920

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| <b>PRODUCT NAME</b>         | Eaton Moeller® series T0 Voltmeter selector switch                                                                                                                                                                                                        |
| <b>CATALOG NUMBER</b>       | 041234                                                                                                                                                                                                                                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 106 mm                                                                                                                                                                                                                                                    |
| <b>PRODUCT HEIGHT</b>       | 48 mm                                                                                                                                                                                                                                                     |
| <b>PRODUCT WIDTH</b>        | 48 mm                                                                                                                                                                                                                                                     |
| <b>PRODUCT WEIGHT</b>       | 0.124 kg                                                                                                                                                                                                                                                  |
| <b>CERTIFICATIONS</b>       | UL Category Control No.: NLRV<br>CSA Class No.: 3211-05<br>CSA File No.: 012528<br>CSA-C22.2 No. 60947-4-1-14<br>CSA-C22.2 No. 94<br>UL 60947-4-1<br>IEC/EN 60204<br>CE<br>IEC/EN 60947<br>UL<br>UL File No.: E36332<br>VDE 0660<br>IEC/EN 60947-3<br>CSA |
| <b>CATALOG NOTES</b>        | Rated Short-time Withstand Current (Icw) for a time of 1 second                                                                                                                                                                                           |

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| TYPE                                                                             | Voltmeter selector switch                                                                                                        |
| PRODUCT CATEGORY                                                                 | Control switches                                                                                                                 |
| 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.                                                                                       |
| 10.3 DEGREE OF PROTECTION OF                                                     | Does not apply, since the entire switchgear needs to                                                                             |

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| DECLARATIONS OF CONFORMITY | <a href="#">eaton-step-switch-declaration-of-conformity-uk251327en.pdf</a>                                                                                                        |
| □□□□□                      | <a href="#">IL03801020Z</a>                                                                                                                                                       |
| □□□                        | <a href="#">eaton-rotary-switches-t0-voltmeter-selector-switch-wiring-diagram-029.eps</a>                                                                                         |
| □□                         | <a href="#">eaton-rotary-switches-mounting-t0-step-switch-dimensions-010.eps</a><br><a href="#">eaton-rotary-switches-front-plate-t0-voltmeter-selector-switch-symbol-006.eps</a> |

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| <b>ASSEMBLIES</b>                                               | 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>                                             | Control unit<br>Black thumb grip and front plate<br>0 (off) position           |
| <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>ENCLOSURE MATERIAL</b>                                       | Plastic                                                                        |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 6000 V AC                                                                      |
| <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</b>                    | 1 HP                                                                           |

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| <b>HZ, 1-PHASE</b>                                                 |                                                                                                  |
| <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 CONTACT<br/>UNITS</b>                                 | 2                                                                                                |
| <b>DEVICE CONSTRUCTION</b>                                         | Front installation                                                                               |
| <b>RATED SHORT-TIME<br/>WITHSTAND CURRENT<br/>(ICW)</b>            | 320 A, Contacts, 1 second                                                                        |
| <b>MOUNTING POSITION</b>                                           | As required                                                                                      |
| <b>RATED CONDITIONAL<br/>SHORT-CIRCUIT CURRENT<br/>(IQ)</b>        | 6 kA                                                                                             |
| <b>MOUNTING METHOD</b>                                             | Center mounting                                                                                  |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                    | III                                                                                              |
| <b>CONTROL CIRCUIT<br/>RELIABILITY</b>                             | 1 failure per 100,000<br>switching operations<br>statistically determined, at<br>24 V DC, 10 mA) |
| <b>NUMBER OF POLES</b>                                             | 2                                                                                                |
| <b>DEGREE OF PROTECTION</b>                                        | NEMA 12<br>IP65                                                                                  |
| <b>NUMBER OF CONTACTS</b>                                          | 4                                                                                                |
| <b>DEGREE OF PROTECTION<br/>(FRONT SIDE)</b>                       | IP65                                                                                             |
| <b>INSCRIPTION</b>                                                 | " 0-Phase/Phase "                                                                                |
| <b>SWITCH FUNCTION TYPE</b>                                        | 3 x phase-phase                                                                                  |
| <b>FUNCTIONS</b>                                                   | Measurement between                                                                              |

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|                                                                      | phases possible                                                                                                                                                                                                                               |
| <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>                                | 20 A at AC-3, 400 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>8.5 A at AC-3, 690 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>1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)<br>2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor) |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>          | 10A, IU, (UL/CSA)                                                                                                                                                                                                                             |
| <b>TIGHTENING TORQUE</b>                                             | 1 Nm, Screw terminals<br>8.8 lb-in, Screw terminals                                                                                                                                                                                           |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>           | A600 (UL/CSA)<br>P300 (UL/CSA)                                                                                                                                                                                                                |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V</b>                 | 1                                                                                                                                                                                                                                             |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>                 | 3                                                                                                                                                                                                                                             |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>                  | 1                                                                                                                                                                                                                                             |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V</b>                 | 5                                                                                                                                                                                                                                             |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V</b>                  | 2                                                                                                                                                                                                                                             |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>                  | 3                                                                                                                                                                                                                                             |
| <b>RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)</b> | 100 A                                                                                                                                                                                                                                         |

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| <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<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>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>                         | 2 x (0.75 - 2.5) mm <sup>2</sup> ,<br>ferrules to DIN 46228<br>1 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,                                                                          |

|                                                                               | (UL/CSA) |
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| <b>RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS</b> | 10 A     |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS</b>  | 10 A     |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-21, 240 V</b>                         | 1 A      |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>                        | 5 A      |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>                         | 10 A     |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V</b>                        | 5 A      |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>                         | 10 A     |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>                         | 10 A     |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>          | 20 A     |
| <b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>                    | 3 kW     |
| <b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>                        | 5.5 kW   |
| <b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>                        | 7.5 kW   |
| <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</b>                                  | 7.5 kW   |

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| 380/400 V, 50 HZ                                    |                                                                     |
| 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 OPERATIONAL VOLTAGE (UE) AT AC - MAX          | 690 V                                                               |
| RATED UNINTERRUPTED CURRENT (IU)                    | 20 A                                                                |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  | 0 W                                                                 |
| SWITCHING ANGLE                                     | 45 °                                                                |
| VOLTAGE PER CONTACT PAIR IN SERIES                  | 60 V                                                                |
| SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)           | 10 kA, SCCR (UL/CSA)<br>20 A, Class J, max. Fuse, SCCR (UL/CSA)     |
| SHORT-CIRCUIT CURRENT RATING (BASIC RATING)         | 5 kA, SCCR (UL/CSA)<br>50A, max. Fuse, SCCR (UL/CSA)                |
| TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG) | 18 - 14                                                             |
| TERMINAL CAPACITY (SOLID/STRANDED)                  | 2 x (1 - 2.5) mm <sup>2</sup><br>1 x (1 - 2.5) mm <sup>2</sup>      |
| UNINTERRUPTED CURRENT                               | Rated uninterrupted current Iu is specified for max. cross-section. |
| DESIGN                                              | 15920                                                               |

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