



## Eaton 055466

Eaton Moeller® series T0 Changeover switch, 20 A, rear mounting, 3 contact units, Contacts: 6, 45 °, momentary, 0 (Off) position, spring-return to 0, 2>0<1, Design no. 8216

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| <b>PRODUCT NAME</b>         | Eaton Moeller® series T0 Changeover switch                                                                                                                                                                                                                |
| <b>CATALOG NUMBER</b>       | 055466                                                                                                                                                                                                                                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 137 mm                                                                                                                                                                                                                                                    |
| <b>PRODUCT HEIGHT</b>       | 48 mm                                                                                                                                                                                                                                                     |
| <b>PRODUCT WIDTH</b>        | 48 mm                                                                                                                                                                                                                                                     |
| <b>PRODUCT WEIGHT</b>       | 0.163 kg                                                                                                                                                                                                                                                  |
| <b>CERTIFICATIONS</b>       | VDE 0660<br>CE<br>CSA-C22.2 No. 94<br>UL Category Control No.: NLRV<br>CSA File No.: 012528<br>IEC/EN 60947-3<br>UL<br>CSA Class No.: 3211-05<br>UL File No.: E36332<br>CSA-C22.2 No. 60947-4-1-14<br>IEC/EN 60204<br>CSA<br>IEC/EN 60947<br>UL 60947-4-1 |
| <b>CATALOG NOTES</b>        | Rated Short-time Withstand Current (Icw) for a time of 1 second                                                                                                                                                                                           |



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| <b>TYPE</b>                                                                             | Changeover switch                                                                                                                |
| <b>PRODUCT CATEGORY</b>                                                                 | Control switches                                                                                                                 |
| <b>ACTUATOR FUNCTION</b>                                                                | With 0 (Off) position<br>Momentary<br>Spring-return from both directions to 0                                                    |
| <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.                                                                                       |

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| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-step-switch-declaration-of-conformity-uk251327en.pdf</a>                                                                                                |
| 00000                             | <a href="#">IL03801021Z</a>                                                                                                                                               |
| 000                               | <a href="#">eaton-rotary-switches-changeover-switch-t0-changeover-switch-wiring-diagram-009.eps</a>                                                                       |
| 00                                | <a href="#">eaton-rotary-switches-mounting-t0-step-switch-dimensions-020.eps</a><br><a href="#">eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-013.eps</a> |

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| <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<br>Retraction in 0-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>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 (ENCLOSED) - MIN</b>           | -25 °C                                                                           |
| <b>ASSIGNED MOTOR POWER AT 115/120 V, 60</b>                    | 0.5 HP                                                                           |

|                                                                        |                           |
|------------------------------------------------------------------------|---------------------------|
| <b>HZ, 1-PHASE</b>                                                     |                           |
| <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<br/>SHORT-CIRCUIT CURRENT<br/>(IQ)</b>            | 6 kA                      |
| <b>MOUNTING METHOD</b>                                                 | Rear mounting             |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                        | III                       |

|                                                             |                                                                                                                                                                                                                                               |
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| <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>                                 | IP65<br>NEMA 1<br>NEMA 12                                                                                                                                                                                                                     |
| <b>NUMBER OF CONTACTS</b>                                   | 6                                                                                                                                                                                                                                             |
| <b>MODEL</b>                                                | Reverser                                                                                                                                                                                                                                      |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>                    | IP65<br>NEMA 12                                                                                                                                                                                                                               |
| <b>INSCRIPTION</b>                                          | 2>0<1                                                                                                                                                                                                                                         |
| <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>                                    | 8.8 lb-in, Screw terminals<br>1 Nm, Screw terminals                                                                                                                                                                                           |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>  | P300 (UL/CSA)<br>A600 (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                                                                                                                                                                                                                                             |

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| <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<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  |

|                                                                                           |                                                                                                                             |
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| <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>                                                                       | Intermediate mounting<br>Branch circuits, suitable as<br>motor disconnect,<br>(UL/CSA)<br>Ground mounting<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<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>                             | 10 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</b>                                                                  | 7.5 kW                                                                                                                      |

|                                                               |                                                                                 |
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| <b>POWER AT AC-23A, 500 V, 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, 380/400 V, 50 HZ</b>      | 4 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>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>             | 690 V                                                                           |
| <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>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>                                                 | 8216                                                                            |

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



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