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## Eaton 197446

Eaton Moeller® series T0 T0, 20 A, surface mounting, 4 contact unit(s), 90 °, maintained, 0-1, in steel enclosure, Design number 15682

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|---------------------------------|------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series T0<br>On-off switch                  |
| <b>CATALOG NUMBER</b>           | 197446                                                     |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 250 mm                                                     |
| <b>PRODUCT HEIGHT</b>           | 147 mm                                                     |
| <b>PRODUCT WIDTH</b>            | 200 mm                                                     |
| <b>PRODUCT WEIGHT</b>           | 1.61 kg                                                    |
| <b>CERTIFICATIONS</b>           | IEC/EN 60947-3<br>VDE 0660<br>IEC/EN 60204<br>IEC/EN 60947 |



Powering Business Worldwide

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| PRODUCT CATEGORY                                                                 | On-Off switch                                                                                                                    |
| ACTUATOR COLOR                                                                   | Black                                                                                                                            |
| ACTUATOR FUNCTION                                                                | 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 ASSEMBLIES                                          | 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>        |
| □□□□□                      | <a href="#">IL008055ZU</a>                                                        |
|                            | <a href="#">eaton-rotary-switches-t0-main-switch-dimensions-004.eps</a>           |
| □□                         | <a href="#">eaton-rotary-switches-t0-changeover-switch-3d-drawing-002.eps</a>     |
|                            | <a href="#">eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.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>                                             | Black thumb grip and front plate                                   |
| <b>OPERATING FREQUENCY</b>                                      | 1200 Operations/h                                                  |
| <b>POLLUTION DEGREE</b>                                         | 3                                                                  |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 6000 V AC                                                          |
| <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 PERMANENT CURRENT AT AC-21, 400 V</b>                  | 20 A                                                               |
| <b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>                  | 13.3 A                                                             |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                         | 20 A                                                               |
| <b>SWITCHING ANGLE</b>                                          | 90 °                                                               |
| <b>SWITCHING POWER AT 400 V</b>                                 | 5.5 kW                                                             |
| <b>VOLTAGE PER CONTACT PAIR IN SERIES</b>                       | 60 V                                                               |
| <b>DEVICE CONSTRUCTION</b>                                      | Complete device in housing                                         |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                 | 320 A, Contacts, 1 second<br>0.32 kA                               |
| <b>ELECTRICAL</b>                                               | Screw connection                                                   |

|                                                                |                                                                                                                                                                                                                                               |
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| <b>CONNECTION TYPE OF MAIN CIRCUIT</b>                         |                                                                                                                                                                                                                                               |
| <b>MOUNTING POSITION</b>                                       | As required                                                                                                                                                                                                                                   |
| <b>ACTUATOR TYPE</b>                                           | Short thumb-grip                                                                                                                                                                                                                              |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>          | 40 °C                                                                                                                                                                                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>          | -25 °C                                                                                                                                                                                                                                        |
| <b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0                                                                                                                                                                                                                                             |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 1                                                                                                                                                                                                                                             |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>            | 6 kA                                                                                                                                                                                                                                          |
| <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>DEGREE OF PROTECTION (FRONT SIDE)</b>                       | IP65                                                                                                                                                                                                                                          |
| <b>NUMBER OF POLES</b>                                         | Six-pole                                                                                                                                                                                                                                      |
| <b>MOUNTING METHOD</b>                                         | Surface mounting                                                                                                                                                                                                                              |
| <b>DEGREE OF PROTECTION</b>                                    | NEMA 12                                                                                                                                                                                                                                       |
| <b>SUITABLE FOR</b>                                            | Ground mounting                                                                                                                                                                                                                               |
| <b>NUMBER OF SWITCHES</b>                                      | 1                                                                                                                                                                                                                                             |
| <b>SAFE ISOLATION</b>                                          | 440 V AC, Between the contacts, According to EN 61140                                                                                                                                                                                         |
| <b>SCREW SIZE</b>                                              | M3.5, Terminal screw                                                                                                                                                                                                                          |
| <b>INSCRIPTION</b>                                             | 0-1                                                                                                                                                                                                                                           |
| <b>SHOCK RESISTANCE</b>                                        | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms                                                                                                                                                                 |
| <b>LIFESPAN, MECHANICAL</b>                                    | 400,000 Operations                                                                                                                                                                                                                            |
| <b>LOAD RATING</b>                                             | 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)<br>1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor) |

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| <b>TERMINAL CAPACITY</b>                                             | 1 x (1 - 2.5) mm <sup>2</sup> , solid or stranded<br>2 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>1 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>2 x (1 - 2.5) mm <sup>2</sup> , solid or stranded |
| <b>SAFETY PARAMETER (EN ISO 13849-1)</b>                             | B10d values as per EN ISO 13849-1, table C.1                                                                                                                                                                                                               |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>         | 1                                                                                                                                                                                                                                                          |
| <b>NUMBER OF CONTACT UNITS</b>                                       | 4                                                                                                                                                                                                                                                          |
| <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                                                                                                                                                                                                                                                      |
| <b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b> | 110 A                                                                                                                                                                                                                                                      |
| <b>RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)</b>     | 80 A                                                                                                                                                                                                                                                       |
| <b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b> | 60 A                                                                                                                                                                                                                                                       |
| <b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b> | 130 A                                                                                                                                                                                                                                                      |
| <b>RATED OPERATING VOLTAGE (UE) - MAX</b>                            | 690 V                                                                                                                                                                                                                                                      |
| <b>RATED OPERATING VOLTAGE (UE) - MIN</b>                            | 690 V                                                                                                                                                                                                                                                      |
| <b>RATED OPERATIONAL</b>                                             | 690 V                                                                                                                                                                                                                                                      |

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| <b>VOLTAGE (UE) AT AC - MAX</b>                                               |                            |
| <b>SHORT-CIRCUIT PROTECTION RATING</b>                                        | 20 A gG/gL, Fuse, Contacts |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V</b>                         | 20 A                       |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V</b>                        | 13.3 A                     |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>                 | 13.3 A                     |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>                        | 13.3 A                     |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>                        | 7.6 A                      |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>            | 11.5 A                     |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>            | 11.5 A                     |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>                          | 9 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>                   | 4.9 A                      |
| <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,</b>                              | 10 A                       |

|                                                                     |                                                                                 |
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| <b>48 V</b>                                                         |                                                                                 |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>               | 10 A                                                                            |
| <b>RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 220/230 V</b> | 20 A                                                                            |
| <b>RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 380/400 V</b> | 20 A                                                                            |
| <b>RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 500 V</b>     | 15.6 A                                                                          |
| <b>RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 690 V</b>     | 8.5 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, 380/400 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>TIGHTENING TORQUE</b>                                            | 1 Nm, Screw terminals<br>8.8 lb-in, Screw terminals                             |
| <b>UNINTERRUPTED CURRENT</b>                                        | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |
| <b>HOUSING MATERIAL</b>                                             | Plastic                                                                         |

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



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