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## Eaton 197444

Eaton Moeller® series T0 Main switch, T0, 20 A, surface mounting, 3 contact unit(s), 3 pole + N, 1 N/O, 1 N/C, Emergency switching off function, Lockable in the 0 (Off) position, in steel enclosure

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| <b>PRODUCT NAME</b>         | Eaton Moeller® series T0 Main switch                       |
| <b>CATALOG NUMBER</b>       | 197444                                                     |
| <b>PRODUCT LENGTH/DEPTH</b> | 200 mm                                                     |
| <b>PRODUCT HEIGHT</b>       | 135 mm                                                     |
| <b>PRODUCT WIDTH</b>        | 150 mm                                                     |
| <b>PRODUCT WEIGHT</b>       | 1.62 kg                                                    |
| <b>CERTIFICATIONS</b>       | IEC/EN 60947-3<br>IEC/EN 60204<br>IEC/EN 60947<br>VDE 0660 |

|                                                                                         |                                                                                                                                        |
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| <b>PRODUCT CATEGORY</b>                                                                 | Main switch                                                                                                                            |
| <b>FEATURES</b>                                                                         | Version as emergency stop installation<br>Version as main switch<br>Version as maintenance-/service switch<br>Version as safety switch |
| <b>ACTUATOR COLOR</b>                                                                   | Red                                                                                                                                    |
| <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.                                                                     |

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| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-main-switch-declaration-of-conformity-uk251328en.pdf</a>                                                                     |
| <b>000000</b>                     | <a href="#">IL008054ZU</a>                                                                                                                     |
| <b>000</b>                        | <a href="#">eaton-rotary-switches-main-switch-t0-main-switch-wiring-diagram.eps</a>                                                            |
| <b>00</b>                         | <a href="#">eaton-rotary-switches-p1-main-switch-dimensions-004.eps</a><br><a href="#">eaton-rotary-switches-t0-main-switch-3d-drawing.eps</a> |

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| <b>10.2.7 INSCRIPTIONS</b>                                      | Meets the product standard's requirements.                         |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated. |
| <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>                                             | Red rotary handle and yellow locking ring                          |
| <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                                                 |

|                                                                |                                                                                         |
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|                                                                | housing                                                                                 |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                | 0.32 kA<br>320 A, Contacts, 1 second                                                    |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>              | Screw connection                                                                        |
| <b>MOUNTING POSITION</b>                                       | As required                                                                             |
| <b>ACTUATOR TYPE</b>                                           | Door coupling rotary drive                                                              |
| <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>                                         | Three-pole                                                                              |
| <b>MOUNTING METHOD</b>                                         | Surface mounting                                                                        |
| <b>DEGREE OF PROTECTION</b>                                    | NEMA 12                                                                                 |
| <b>SUITABLE FOR</b>                                            | Ground mounting                                                                         |
| <b>LOCKING FACILITY</b>                                        | Lockable in the 0 (Off) position                                                        |
| <b>FUNCTIONS</b>                                               | Interlockable<br>Emergency switching off function                                       |
| <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>SHOCK RESISTANCE</b>                                        | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms           |

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| <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>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)              |
| <b>TERMINAL CAPACITY</b>                                             | 1 x (1 - 2.5) mm <sup>2</sup> , solid or stranded<br>2 x (1 - 2.5) mm <sup>2</sup> , solid or stranded<br>1 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>2 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228 |
| <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>                                       | 3                                                                                                                                                                                                                                                          |
| <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                                                                                                                                                                                                                                                       |

|                                                                                           |                            |
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| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN<br/>60947-3)</b>          | 130 A                      |
| <b>RATED OPERATING<br/>VOLTAGE (UE) - MAX</b>                                             | 690 V                      |
| <b>RATED OPERATING<br/>VOLTAGE (UE) - MIN</b>                                             | 690 V                      |
| <b>RATED OPERATIONAL<br/>VOLTAGE (UE) AT AC -<br/>MAX</b>                                 | 690 V                      |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING</b>                                                | 20 A gG/gL, Fuse, Contacts |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-21,<br/>440 V</b>                             | 20 A                       |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>230 V</b>                            | 13.3 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>400 V, 415 V</b>                     | 13.3 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>500 V</b>                            | 13.3 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>690 V</b>                            | 7.6 A                      |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>                | 11.5 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>                | 11.5 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                              | 9 A                        |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>                       | 4.9 A                      |
| <b>RATED OPERATIONAL<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,</b>                                      | 5 A                        |

|                                                                              |        |
|------------------------------------------------------------------------------|--------|
| <b>120 V</b>                                                                 |        |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>24 V</b>                | 10 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>240 V</b>               | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>48 V</b>                | 10 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>                | 10 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 220/230 V</b> | 20 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 380/400 V</b> | 20 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 500 V</b>     | 15.6 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) STAR-<br/>DELTA AT AC-3, 690 V</b>     | 8.5 A  |
| <b>RATED OPERATIONAL<br/>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>             | 5.5 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 |

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| TIGHTENING TORQUE     | 1 Nm, Screw terminals<br>8.8 lb-in, Screw terminals                 |
| UNINTERRUPTED CURRENT | Rated uninterrupted current Iu is specified for max. cross-section. |
| HOUSING MATERIAL      | Plastic                                                             |

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



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