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## Eaton 197384

Eaton Moeller® series T0 Main switch, T0, 20 A, surface mounting, 1 contact unit(s), 1 pole, Emergency switching off function, With red rotary handle and yellow locking ring, 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>       | 197384   |
| <b>PRODUCT LENGTH/DEPTH</b> | 200 mm   |
| <b>PRODUCT HEIGHT</b>       | 135 mm   |
| <b>PRODUCT WIDTH</b>        | 150 mm   |
| <b>PRODUCT WEIGHT</b>       | 1.56 kg  |
| <b>CERTIFICATIONS</b>       | VDE 0660<br>IEC/EN 60947<br>IEC/EN 60947-3<br>IEC/EN 60204 |

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| <b>PRODUCT CATEGORY</b>   | Main switch  |
| <b>FEATURES</b>   | Version as emergency stop installation<br>Version as maintenance-/service switch<br>Version as main 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>00000</b>                      | <a href="#">IL008054ZU</a>   |
| <b>000</b>                        | <a href="#">eaton-rotary-switches-on-off-switch-t0-on-off-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> | 0   |
| <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>   | Single-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>   | Emergency switching off function<br>Interlockable                                       |
| <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>   | 1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)<br>2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)<br>1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)              |
| <b>TERMINAL CAPACITY</b>   | 2 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>1 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>         | 0  |
| <b>NUMBER OF CONTACT UNITS</b>                                       | 1  |
| <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                        |

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| <b>120 V</b>  |        |
| <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 (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 |

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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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