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## Eaton 207310

Eaton Moeller® series P1 Safety switch, P1, 25 A, 3 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in position 0 with cover interlock, with warning label „safety switch“

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| <b>PRODUCT NAME</b>         | Eaton Moeller® series P1 Safety switch                                                                 |
| <b>CATALOG NUMBER</b>       | 207310                                                                                                 |
| <b>PRODUCT LENGTH/DEPTH</b> | 125 mm                                                                                                 |
| <b>PRODUCT HEIGHT</b>       | 180 mm                                                                                                 |
| <b>PRODUCT WIDTH</b>        | 100 mm                                                                                                 |
| <b>PRODUCT WEIGHT</b>       | 0.47 kg                                                                                                |
| <b>CERTIFICATIONS</b>       | IEC 60947<br>EN 60204<br>EN 60947<br>VDE<br>IEC/EN 60204<br>IEC/EN 60947<br>IEC/EN 60947-3<br>VDE 0660 |
| <b>CATALOG NOTES</b>        | Rated Short-time<br>Withstand Current (Icw)<br>for a time of 1 second                                  |

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| <b>PRODUCT CATEGORY</b>                                                                 | Safety switch                                                                                                                    |
| <b>FEATURES</b>                                                                         | Version as safety switch<br>Version as emergency stop installation                                                               |
| <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.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF</b>                                                                   | Does not apply, since the                                                                                                        |

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| DECLARATIONS OF CONFORMITY | <a href="#">eaton-main-switch-declaration-of-conformity-uk251291en.pdf</a>                                                                             |
| □□                         | <a href="#">eaton-rotary-switches-surface-mounting-p1-main-switch-dimensions.eps</a><br><a href="#">eaton-rotary-switches-p3-safety-3d-drawing.eps</a> |

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| <b>PROTECTION OF ASSEMBLIES</b>                                 | 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>                                             | Warning label "Safety switch"<br>Red rotary handle and yellow locking ring     |
| <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>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 6000 V AC                                                                      |
| <b>RATED PERMANENT CURRENT AT AC-21, 400 V</b>                  | 25 A                                                                           |
| <b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>                  | 25 A                                                                           |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                         | 25 A                                                                           |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>       | 0 W                                                                            |
| <b>SWITCHING POWER AT 400 V</b>                                 | 13 kW                                                                          |
| <b>VOLTAGE PER CONTACT PAIR IN SERIES</b>                       | 60 V                                                                           |
| <b>ACCESSORIES</b>                                              | Auxiliary contact or                                                           |

|                                                                |                                                                                         |
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|                                                                | neutral conductor fitted by user.                                                       |
| <b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>           | 7.5 kW                                                                                  |
| <b>DEVICE CONSTRUCTION</b>                                     | Complete device in housing                                                              |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                | 640 A, Contacts, 1 second<br>0.64 kA                                                    |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>              | Screw connection                                                                        |
| <b>MOUNTING POSITION</b>                                       | As required                                                                             |
| <b>ACTUATOR TYPE</b>                                           | Short thumb-grip                                                                        |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                     | 40 °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>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>      | 1.1 W                                                                                   |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                         | 0 W                                                                                     |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>       | 1.1 W                                                                                   |
| <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>            | 80 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                                                                              |

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| <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 (cover interlock)                                                                                                                                                                                               |
| <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>                                                    | M4, Terminal screw                                                                                                                                                                                                                               |
| <b>SHOCK RESISTANCE</b>                                              | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms                                                                                                                                                                    |
| <b>LIFESPAN, MECHANICAL</b>                                          | 300,000 Operations                                                                                                                                                                                                                               |
| <b>LOAD RATING</b>                                                   | 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)<br>1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)    |
| <b>TERMINAL CAPACITY</b>                                             | 1 x (1 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>1 x (1.5 - 6) mm <sup>2</sup> , solid or stranded<br>2 x (1 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>2 x (1.5 - 6) 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 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, 48 V</b>                  | 2                                                                                                                                                                                                                                                |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>                  | 2                                                                                                                                                                                                                                                |
| <b>RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)</b> | 190 A                                                                                                                                                                                                                                            |

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| <b>RATED BREAKING<br/>CAPACITY AT 400/415 V<br/>(COS PHI TO IEC 60947-3)</b>              | 150 A                      |
| <b>RATED BREAKING<br/>CAPACITY AT 500 V (COS<br/>PHI TO IEC 60947-3)</b>                  | 170 A                      |
| <b>RATED BREAKING<br/>CAPACITY AT 660/690 V<br/>(COS PHI TO IEC 60947-3)</b>              | 150 A                      |
| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN<br/>60947-3)</b>          | 240 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>                                                | 25 A gG/gL, Fuse, Contacts |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-21,<br/>440 V</b>                             | 25 A                       |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>230 V</b>                            | 25 A                       |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>400 V, 415 V</b>                     | 25 A                       |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>500 V</b>                            | 17.4 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>690 V</b>                            | 12.6 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>                | 19.6 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>                | 15.2 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                              | 12.1 A                     |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>                       | 8.8 A                      |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>LOAD-BREAK SWITCHES<br/>L/R = 1 MS</b> | 25 A                       |

|                                                                              |                                                                                       |
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| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>120 V</b>               | 12 A                                                                                  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>24 V</b>                | 25 A                                                                                  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>48 V</b>                | 25 A                                                                                  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>                | 25 A                                                                                  |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 25 A                                                                                  |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A,<br/>220/230 V, 50 HZ</b>           | 5.5 kW                                                                                |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 400 V,<br/>50 HZ</b>               | 13 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 500 V,<br/>50 HZ</b>               | 11 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 690 V,<br/>50 HZ</b>               | 11 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>             | 7.5 kW                                                                                |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>                 | 7.5 kW                                                                                |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 690 V, 50<br/>HZ</b>                 | 7.5 kW                                                                                |
| <b>TIGHTENING TORQUE</b>                                                     | 14.1 lb-in, Screw terminals<br>1.6 Nm, Screw terminals                                |
| <b>UNINTERRUPTED<br/>CURRENT</b>                                             | Rated uninterrupted<br>current I <sub>u</sub> is specified for<br>max. cross-section. |
| <b>HOUSING COLOR</b>                                                         | Gray                                                                                  |
| <b>HOUSING MATERIAL</b>                                                      | Plastic                                                                               |

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



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