

## Eaton 197371

Eaton Moeller® series P3 Main switch, P3, 100 A, surface mounting, 3 pole, 1 N/O, 1 N/C, 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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| PRODUCT NAME         | Eaton Moeller® series P3 Main switch                       |
| CATALOG NUMBER       | 197371                                                     |
| PRODUCT LENGTH/DEPTH | 250 mm                                                     |
| PRODUCT HEIGHT       | 155 mm                                                     |
| PRODUCT WIDTH        | 200 mm                                                     |
| PRODUCT WEIGHT       | 2.7 kg                                                     |
| CERTIFICATIONS       | IEC/EN 60947<br>IEC/EN 60947-3<br>VDE 0660<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 safety switch<br>Version as main switch<br>Version as maintenance-/service 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.                                                                     |

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| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-main-switch-declaration-of-conformity-uk251295en.pdf</a>  |
|                                   | <a href="#">eaton-switch-disconnector-steel-enclosure-p3-il008056zu.pdf</a> |
|                                   | <a href="#">eaton-rotary-switches-p3-main-switch-dimensions-011.eps</a>     |
|                                   | <a href="#">eaton-rotary-switches-t0-main-switch-3d-drawing-002.eps</a>     |

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| <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 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 PERMANENT CURRENT AT AC-21, 400 V</b>                  | 100 A                                                              |
| <b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>                  | 100 A                                                              |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                         | 100 A                                                              |
| <b>SWITCHING ANGLE</b>                                          | 90 °                                                               |
| <b>SWITCHING POWER AT 400 V</b>                                 | 55 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>DEVICE CONSTRUCTION</b>                                     | Complete device in housing                                                              |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                | 2 kA                                                                                    |
| <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>            | 4 kA (Load side)<br>80 kA (Supply side)                                                 |
| <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>                                               | 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                                   |

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| <b>SHOCK RESISTANCE</b>                                                      | 15 g, Mechanical,<br>According to IEC/EN<br>60068-2-27, Half-<br>sinusoidal shock 20 ms                                                                                                                                                                             |
| <b>LIFESPAN, MECHANICAL</b>                                                  | 100,000 Operations                                                                                                                                                                                                                                                  |
| <b>LOAD RATING</b>                                                           | 1.3 x I <sub>e</sub> (with intermittent<br>operation class 12, 60 %<br>duty factor)<br>1.6 x I <sub>e</sub> (with intermittent<br>operation class 12, 40 %<br>duty factor)<br>2 x I <sub>e</sub> (with intermittent<br>operation class 12, 25 %<br>duty factor)     |
| <b>TERMINAL CAPACITY</b>                                                     | 1 x (1.5 - 25) mm <sup>2</sup> , flexible<br>with ferrules to DIN 46228<br>1 x (2.5 - 35) mm <sup>2</sup> , solid or<br>stranded<br>2 x (1.5 - 6) mm <sup>2</sup> , flexible<br>with ferrules to DIN 46228<br>2 x (2.5 - 10) mm <sup>2</sup> , solid or<br>stranded |
| <b>SAFETY PARAMETER (EN<br/>ISO 13849-1)</b>                                 | B10d values as per EN ISO<br>13849-1, table C.1                                                                                                                                                                                                                     |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (NORMALLY<br/>OPEN CONTACTS)</b>         | 1                                                                                                                                                                                                                                                                   |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 120<br/>V</b>                 | 3                                                                                                                                                                                                                                                                   |
| <b>NUMBER OF CONTACTS<br/>IN SERIES AT DC-23A, 24 V</b>                      | 1                                                                                                                                                                                                                                                                   |
| <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>                      | 2                                                                                                                                                                                                                                                                   |
| <b>RATED BREAKING<br/>CAPACITY AT 220/230 V<br/>(COS PHI TO IEC 60947-3)</b> | 760 A                                                                                                                                                                                                                                                               |
| <b>RATED BREAKING<br/>CAPACITY AT 400/415 V<br/>(COS PHI TO IEC 60947-3)</b> | 740 A                                                                                                                                                                                                                                                               |
| <b>RATED BREAKING<br/>CAPACITY AT 500 V (COS<br/>PHI TO IEC 60947-3)</b>     | 880 A                                                                                                                                                                                                                                                               |
| <b>RATED BREAKING<br/>CAPACITY AT 660/690 V<br/>(COS PHI TO IEC 60947-3)</b> | 520 A                                                                                                                                                                                                                                                               |
| <b>RATED MAKING<br/>CAPACITY UP TO 690 V<br/>(COS PHI TO IEC/EN</b>          | 950 A                                                                                                                                                                                                                                                               |

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| <b>60947-3)</b>                                                               |                             |
| <b>RATED OPERATING VOLTAGE (UE) - MAX</b>                                     | 690 V                       |
| <b>RATED OPERATING VOLTAGE (UE) - MIN</b>                                     | 690 V                       |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>                             | 690 V                       |
| <b>SHORT-CIRCUIT PROTECTION RATING</b>                                        | 100 A gG/gL, Fuse, Contacts |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V</b>                         | 100 A                       |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V</b>                        | 100 A                       |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>                 | 100 A                       |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>                        | 96 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>                        | 68 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>            | 71 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>            | 71 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>                          | 65 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>                   | 23.8 A                      |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS</b> | 100 A                       |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>                        | 25 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>                         | 50 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>                         | 50 A                        |

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| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>      | 50 A                                                                                  |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A,<br/>220/230 V, 50 HZ</b> | 30 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 400 V,<br/>50 HZ</b>     | 55 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 500 V,<br/>50 HZ</b>     | 55 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 690 V,<br/>50 HZ</b>     | 55 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>   | 37 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>       | 37 kW                                                                                 |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 690 V, 50<br/>HZ</b>       | 37 kW                                                                                 |
| <b>TIGHTENING TORQUE</b>                                           | 3 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 MATERIAL</b>                                            | Plastic                                                                               |

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

:



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