

## Eaton 172826

Eaton Moeller® series P3 Main switch, P3, 100 A, rear mounting, 3 pole, Emergency switching off function, Lockable in the 0 (Off) position, With metal shaft for a control panel depth of 400 mm

|                             |                                                                 |
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| <b>PRODUCT NAME</b>         | Eaton Moeller® series P3 Main switch                            |
| <b>CATALOG NUMBER</b>       | 172826                                                          |
| <b>PRODUCT LENGTH/DEPTH</b> | 340 mm                                                          |
| <b>PRODUCT HEIGHT</b>       | 84 mm                                                           |
| <b>PRODUCT WIDTH</b>        | 100 mm                                                          |
| <b>PRODUCT WEIGHT</b>       | 0.54 kg                                                         |
| <b>CERTIFICATIONS</b>       | IEC/EN 60947-3<br>VDE 0660<br>IEC/EN 60204<br>IEC/EN 60947      |
| <b>CATALOG NOTES</b>        | Rated Short-time Withstand Current (Icw) for a time of 1 second |

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| <b>PRODUCT CATEGORY</b>                                                                 | Main switch                                                                                                                      |
| <b>FEATURES</b>                                                                         | Version as main switch<br>Version as maintenance-<br>/service switch<br>Version as emergency stop<br>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</b>                                                                | Does not apply, since the                                                                                                        |

|  |                                                                                       |
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|  | <a href="#">eaton-switch-disconnector-p3-metal-shaft-il008009zu.pdf</a>               |
|  | <a href="#">eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps</a> |
|  | <a href="#">eaton-rotary-switches-p3-main-switch-dimensions-003.eps</a>               |
|  | <a href="#">eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps</a>     |

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| <b>IMPACT</b>                                                   | 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>                                             | Metal shaft for a control panel depth of 400 mm<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, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78               |
| <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>STATIC HEAT DISSIPATION, NON-</b>                            | 0 W                                                                                          |

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| <b>CURRENT-DEPENDENT PVS</b>                                   |                                                        |
| <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 neutral conductor fitted by user. |
| <b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>           | 45 kW                                                  |
| <b>DEVICE CONSTRUCTION</b>                                     | Built-in device fixed built-in technique               |
| <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>                                           | Short thumb-grip                                       |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                     | 50 °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>      | 0 W                                                    |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                         | 0 W                                                    |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>       | 7.5 W                                                  |
| <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>            | 4 kA (Load side)<br>80 kA (Supply side)                |

|                                                              |                                                                                                                                                                                                                                                         |
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| <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>                                       | Rear mounting                                                                                                                                                                                                                                           |
| <b>DEGREE OF PROTECTION</b>                                  | NEMA 12                                                                                                                                                                                                                                                 |
| <b>SUITABLE FOR</b>                                          | Intermediate mounting<br>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>SHOCK RESISTANCE</b>                                      | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms                                                                                                                                                                           |
| <b>LIFESPAN, MECHANICAL</b>                                  | 100,000 Operations                                                                                                                                                                                                                                      |
| <b>LOAD RATING</b>                                           | 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)<br>2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)           |
| <b>TERMINAL CAPACITY</b>                                     | 2 x (1.5 - 6) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>2 x (2.5 - 10) mm <sup>2</sup> , solid or stranded<br>1 x (2.5 - 35) mm <sup>2</sup> , solid or stranded<br>1 x (1.5 - 25) 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> | 0                                                                                                                                                                                                                                                       |
| <b>NUMBER OF CONTACTS</b>                                    | 3                                                                                                                                                                                                                                                       |

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| <b>IN SERIES AT DC-23A, 120 V</b>                                    |                             |
| <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> | 760 A                       |
| <b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b> | 740 A                       |
| <b>RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)</b>     | 880 A                       |
| <b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b> | 520 A                       |
| <b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b> | 950 A                       |
| <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</b>                                             | 71 A                        |

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| <b>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>                                      |        |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b>                | 71 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>500 V</b>                              | 65 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>660 V, 690 V</b>                       | 23.8 A |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-1,<br/>LOAD-BREAK SWITCHES<br/>L/R = 1 MS</b> | 100 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>120 V</b>                            | 25 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>24 V</b>                             | 50 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>48 V</b>                             | 50 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>                             | 50 A   |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b>              | 100 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</b>                                     | 37 kW  |

|                              |                                                                                 |
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| <b>HZ</b>                    |                                                                                 |
| <b>TIGHTENING TORQUE</b>     | 3 Nm, Screw terminals                                                           |
| <b>UNINTERRUPTED CURRENT</b> | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |
| <b>HOUSING MATERIAL</b>      | Plastic                                                                         |

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

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