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## Eaton 207381

Eaton Moeller® series P3 On-Off switch, P3, 100 A, surface mounting, 3 pole, with black thumb grip and front plate

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| <b>PRODUCT NAME</b>             | Eaton Moeller® series P3<br>On-off switch                               |
| <b>CATALOG NUMBER</b>           | 207381                                                                  |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 162 mm                                                                  |
| <b>PRODUCT HEIGHT</b>           | 180 mm                                                                  |
| <b>PRODUCT WIDTH</b>            | 200 mm                                                                  |
| <b>PRODUCT WEIGHT</b>           | 1.46 kg                                                                 |
| <b>CERTIFICATIONS</b>           | VDE 0660<br>IEC/EN 60947-3<br>UL<br>CSA<br>IEC/EN 60204<br>IEC/EN 60947 |
| <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>                                                                 | On-Off switch                                                                                                                    |
| <b>ACTUATOR COLOR</b>                                                                   | Black                                                                                                                            |
| <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 PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND</b>                                                              | Meets the product                                                                                                                |

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| DECLARATIONS OF CONFORMITY | <a href="#">eaton-main-switch-declaration-of-conformity-uk251292en.pdf</a>                                                                                             |
| □□□                        | <a href="#">eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps</a><br><a href="#">eaton-rotary-switches-t0-on-off-switch-wiring-diagram-068.eps</a> |
| □□                         | <a href="#">eaton-rotary-switches-p3-on-off-switch-dimensions-004.eps</a><br><a href="#">eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps</a>         |

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| <b>CREEPAGE DISTANCES</b>                                       | 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>                                             | Black thumb grip and front plate                                               |
| <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>                  | 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-CURRENT-DEPENDENT PVS</b>       | 0 W                                                                            |
| <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 neutral conductor fitted by user.                         |
| <b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50</b>               | 45 kW                                                                          |

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| <b>HZ</b>                                                 |                            |
| <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>                                      | 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>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>  | 5 HP                       |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE</b>  | 10 HP                      |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>  | 20 HP                      |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>  | 15 HP                      |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>  | 25 HP                      |
| <b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>  | 60 HP                      |
| <b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>  | 75 HP                      |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b> | 7.5 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</b>                                | 0                          |

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| <b>CONTACTS (CHANGE-OVER CONTACTS)</b>                         |                                                                                                                                                                                                                                                |
| <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)                                                                                                                                                                                                        |
| <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>                                         | 3                                                                                                                                                                                                                                              |
| <b>MOUNTING METHOD</b>                                         | Surface mounting                                                                                                                                                                                                                               |
| <b>DEGREE OF PROTECTION</b>                                    | NEMA 12                                                                                                                                                                                                                                        |
| <b>SUITABLE FOR</b>                                            | Ground mounting                                                                                                                                                                                                                                |
| <b>NUMBER OF SWITCHES</b>                                      | 1                                                                                                                                                                                                                                              |
| <b>SAFE ISOLATION</b>                                          | 440 V AC, Between the contacts, According to EN 61140                                                                                                                                                                                          |
| <b>SCREW SIZE</b>                                              | M5, 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>                                    | 100,000 Operations                                                                                                                                                                                                                             |
| <b>LOAD RATING</b>                                             | 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)<br>1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)  |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>    | 10A, IU, (UL/CSA)                                                                                                                                                                                                                              |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>     | A600 (UL/CSA)<br>P600 (UL/CSA)                                                                                                                                                                                                                 |
| <b>TERMINAL CAPACITY</b>                                       | 2 x (1.5 - 6) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>1 x (1.5 - 25) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>1 x (2.5 - 35) mm <sup>2</sup> , solid or stranded<br>2 x (2.5 - 10) mm <sup>2</sup> , solid or |

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|                                                                                  | stranded<br>14 - 2 AWG, solid or<br>flexible with ferrule                                                |
| <b>SWITCHING CAPACITY<br/>(MAIN CONTACTS,<br/>GENERAL USE)</b>                   | 100 A, If used with neutral<br>conductor IU = max. 90 A,<br>Rated uninterrupted<br>current max. (UL/CSA) |
| <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>             | 0                                                                                                        |
| <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<br/>60947-3)</b> | 950 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 CURRENT<br/>RATING (BASIC RATING)</b>                           | 150A, max. Fuse, SCCR<br>(UL/CSA)<br>10 kA, SCCR (UL/CSA)                                                |
| <b>SHORT-CIRCUIT<br/>PROTECTION RATING</b>                                       | 100 A gG/gL, Fuse,<br>Contacts                                                                           |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-21,<br/>440 V</b>                    | 100 A                                                                                                    |

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| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>230 V</b>                            | 100 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>400 V, 415 V</b>                     | 100 A  |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>500 V</b>                            | 96 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-23A,<br/>690 V</b>                            | 68 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>220 V, 230 V, 240 V</b>                | 71 A   |
| <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</b>                                                                  | 55 kW  |

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| <b>POWER AT AC-23A, 690 V, 50 HZ</b>                     |                                                                                                                                                                                                                                              |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b> | 37 kW                                                                                                                                                                                                                                        |
| <b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>     | 37 kW                                                                                                                                                                                                                                        |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>     | 37 kW                                                                                                                                                                                                                                        |
| <b>TIGHTENING TORQUE</b>                                 | 3 Nm, Screw terminals<br>26.5 lb-in, Screw terminals                                                                                                                                                                                         |
| <b>UNINTERRUPTED CURRENT</b>                             | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.                                                                                                                                                              |
| <b>RATED SWITCHING CAPACITY</b>                          | 10 HP at 200 V AC, single-phase<br>15 HP at 240 V AC, single-phase<br>20 HP at 200 V AC, three-phase<br>25 HP at 240 V AC, three-phase<br>5 HP at 120 V AC, single-phase<br>60 HP at 480 V AC, three-phase<br>75 HP at 600 V AC, three-phase |
| <b>HOUSING COLOR</b>                                     | Black                                                                                                                                                                                                                                        |
| <b>HOUSING MATERIAL</b>                                  | Plastic                                                                                                                                                                                                                                      |

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| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
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