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Eaton 172819

Eaton Moeller® series P3 Main switch, P3, 100 A, rear mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position, With metal shaft for a control panel depth of 400 mm

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| PRODUCT NAME | Eaton Moeller® series P3 Main switch |
| CATALOG NUMBER | 172819 |
| PRODUCT LENGTH/DEPTH | 340 mm |
| PRODUCT HEIGHT | 88 mm |
| PRODUCT WIDTH | 95 mm |
| PRODUCT WEIGHT | 0.515 kg |
| CERTIFICATIONS | CSA-C22.2 No. 60947-4-1-14 UL File No.: E36332 CSA Class No.: 3211-05 CSA-C22.2 No. 94 IEC/EN 60947 IEC/EN 60947-3 UL UL Category Control No.: NLRV IEC/EN 60204 UL 60947-4-1 CSA File No.: 012528 CE VDE 0660 CSA |
| CATALOG NOTES | Rated Short-time Withstand Current (Icw) for a time of 1 second |

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| PRODUCT CATEGORY | Main switch |
| FEATURES | Version as main switch Version as maintenance- /service switch |
| ACTUATOR COLOR | Black |
| 10.10 TEMPERATURE RISE | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 SHORT-CIRCUIT RATING | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 ELECTROMAGNETIC COMPATIBILITY | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 MECHANICAL FUNCTION | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| 10.2.2 CORROSION RESISTANCE | Meets the product standard's requirements. |
| 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES | Meets the product standard's requirements. |
| 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT | Meets the product standard's requirements. |
| 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS | Meets the product standard's requirements. |
| 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION | UV resistance only in connection with protective shield. |
| 10.2.5 LIFTING | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 MECHANICAL IMPACT | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 INSCRIPTIONS | Meets the product standard's requirements. |
| 10.3 DEGREE OF | Does not apply, since the |

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| DECLARATIONS OF CONFORMITY | eaton-main-switch-declaration-of-conformity-uk251292en.pdf |
| 00000 | eaton-switch-disconnector-p3-metal-shaft-il008009zu.pdf |
| 000 | eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps |
| 00 | eaton-rotary-switches-p3-main-switch-dimensions.eps |

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| PROTECTION OF ASSEMBLIES | entire switchgear needs to be evaluated. |
| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS | Is the panel builder's responsibility. |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| FITTED WITH: | Black rotary handle and locking ring Metal shaft for a control panel depth of 400 mm |
| OPERATING FREQUENCY | 1200 Operations/h |
| POLLUTION DEGREE | 3 |
| CLIMATIC PROOFING | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6000 V AC |
| RATED PERMANENT CURRENT AT AC-21, 400 V | 100 A |
| RATED PERMANENT CURRENT AT AC-23, 400 V | 100 A |
| RATED UNINTERRUPTED CURRENT (IU) | 100 A |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 0 W |
| SWITCHING POWER AT 400 V | 55 kW |
| VOLTAGE PER CONTACT PAIR IN SERIES | 60 V |
| ACCESSORIES | Auxiliary contact or |

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| | neutral conductor fitted by user. |
| RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ | 45 kW |
| DEVICE CONSTRUCTION | Built-in device fixed built-in technique |
| RATED SHORT-TIME WITHSTAND CURRENT (ICW) | 2 kA |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT | Screw connection |
| MOUNTING POSITION | As required |
| ACTUATOR TYPE | Door coupling rotary drive |
| AMBIENT OPERATING TEMPERATURE - MAX | 50 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN | -25 °C |
| ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE | 5 HP |
| ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE | 10 HP |
| ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE | 20 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE | 15 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE | 25 HP |
| ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE | 60 HP |
| ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE | 75 HP |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 0 W |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |

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| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID | 7.5 W |
| NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS) | 0 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) | 4 kA (Load side) 80 kA (Supply side) |
| OVERVOLTAGE CATEGORY | III |
| CONTROL CIRCUIT RELIABILITY | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| DEGREE OF PROTECTION (FRONT SIDE) | IP65 |
| NUMBER OF POLES | 3 |
| MOUNTING METHOD | Rear mounting |
| DEGREE OF PROTECTION | NEMA 12 |
| SUITABLE FOR | Branch circuits, suitable as motor disconnect, (UL/CSA) Intermediate mounting Ground mounting |
| LOCKING FACILITY | Lockable in the 0 (Off) position |
| FUNCTIONS | STOP function Interlockable |
| NUMBER OF SWITCHES | 1 |
| SAFE ISOLATION | 440 V AC, Between the contacts, According to EN 61140 |
| SCREW SIZE | M5, Terminal screw |
| SHOCK RESISTANCE | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms |
| LIFESPAN, MECHANICAL | 100,000 Operations |
| LOAD RATING | 1.3 × I _e (with intermittent operation class 12, 60 % duty factor) 1.6 × I _e (with intermittent operation class 12, 40 % duty factor) 2 × I _e (with intermittent operation class 12, 25 % duty factor) |
| SWITCHING CAPACITY | 10A, IU, (UL/CSA) |

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| (AUXILIARY CONTACTS, GENERAL USE) | |
| SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY) | P600 (UL/CSA) A600 (UL/CSA) |
| TERMINAL CAPACITY | 14 - 2 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228 2 x (2.5 - 10) mm ² , solid or stranded 1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm ² , solid or stranded |
| SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE) | 100 A, If used with neutral conductor IU = max. 90 A, Rated uninterrupted current max. (UL/CSA) |
| SAFETY PARAMETER (EN ISO 13849-1) | B10d values as per EN ISO 13849-1, table C.1 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 0 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V | 3 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V | 1 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V | 2 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V | 2 |
| RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3) | 760 A |
| RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3) | 740 A |
| RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3) | 880 A |
| RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3) | 520 A |
| RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3) | 950 A |
| RATED OPERATING VOLTAGE (UE) - MAX | 690 V |
| RATED OPERATING VOLTAGE (UE) - MIN | 690 V |

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| RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX | 690 V |
| SHORT-CIRCUIT CURRENT RATING (BASIC RATING) | 150A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) |
| SHORT-CIRCUIT PROTECTION RATING | 100 A gG/gL, Fuse, Contacts |
| RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V | 100 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V | 100 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V | 100 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V | 96 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V | 68 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V | 71 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V | 71 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V | 65 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V | 23.8 A |
| RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS | 100 A |
| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V | 25 A |
| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V | 50 A |
| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V | 50 A |
| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V | 50 A |
| RATED OPERATIONAL CURRENT FOR SPECIFIED | 100 A |

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| HEAT DISSIPATION (IN) | |
| RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ | 30 kW |
| RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ | 55 kW |
| RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ | 55 kW |
| RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ | 55 kW |
| RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ | 37 kW |
| RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ | 37 kW |
| RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ | 37 kW |
| TIGHTENING TORQUE | 26.5 lb-in, Screw terminals 3 Nm, Screw terminals |
| UNINTERRUPTED CURRENT | Rated uninterrupted current Iu is specified for max. cross-section. |
| HOUSING MATERIAL | Plastic |

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