# Specifications



**Photo is representative**



## Eaton 207343

Eaton Moeller® series P3 Main switch, P3, 63 A, surface mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller® series P3 Main switch |
| **CATALOG NUMBER** | 207343 |
| **MODEL CODE** | P3-63/I4/SVB |
| **EAN** | 4015082073435 |
| **PRODUCT LENGTH/DEPTH** | 139 mm |
| **PRODUCT HEIGHT** | 180 mm |
| **PRODUCT WIDTH** | 160 mm |
| **PRODUCT WEIGHT** | 1.065 kg |
| **CERTIFICATIONS** | CSA<br>IEC/EN 60947-3<br>VDE 0660<br>UL<br>IEC/EN 60947<br>IEC/EN 60204 |
| **CATALOG NOTES** | Rated Short-time Withstand Current (Icw) for a time of 1 second |

## Features & Functions

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| **FEATURES** | Version as main switch<br>Version as emergency stop installation<br>Version as maintenance-/service switch<br>Version as safety switch |
| **FITTED WITH:** | Red rotary handle and yellow locking ring |
| **FUNCTIONS** | Interlockable<br>Emergency switching off function |
| **LOCKING FACILITY** | Lockable in the 0 (Off) position |
| **NUMBER OF POLES** | 3 |

## General

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|---|---|
| **ACCESSORIES** | Auxiliary contact or neutral conductor fitted by user. |
| **DEGREE OF PROTECTION** | NEMA 12 |
| **DEGREE OF PROTECTION (FRONT SIDE)** | IP65 |
| **LIFESPAN, MECHANICAL** | 100,000 Operations |
| **MOUNTING METHOD** | Surface mounting |
| **MOUNTING POSITION** | As required |
| **OPERATING FREQUENCY** | 1200 Operations/h |
| **OVERVOLTAGE CATEGORY** | III |
| **POLLUTION DEGREE** | 3 |
| **PRODUCT CATEGORY** | Main switch |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 6000 V AC |
| **SAFE ISOLATION** | 440 V AC, Between the contacts, According to EN 61140 |
| **SAFETY PARAMETER (EN ISO 13849-1)** | B10d values as per EN ISO 13849-1, table C.1 |
| **SHOCK RESISTANCE** | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms |
| **SUITABLE FOR** | Ground mounting |
| **SWITCHING ANGLE** | 90 ° |

## Climatic environmental conditions

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| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 40 °C |
| **AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN** | -25 °C |
| **AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX** | 40 °C |
| **CLIMATIC PROOFING** | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |

## Terminal capacities

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| **SCREW SIZE** | M5, Terminal screw |
| **TIGHTENING TORQUE** | 3 Nm, Screw terminals<br>26.5 lb-in, Screw terminals |

## Electrical rating

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| **RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)** | 640 A |
| **RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)** | 600 A |
| **RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)** | 590 A |
| **RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)** | 340 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V** | 51 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V** | 55 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V** | 44 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V** | 22.1 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V** | 63 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V** | 63 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V** | 63 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V** | 63 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS** | 63 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 (IE) AT DC-23A, 120 V** | 25 A |
| **RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ** | 30 kW |
| **RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ** | 30 kW |
| **RATED OPERATIONAL** | 30 kW |

## Short-circuit rating

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| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** | 4 kA (Load side)<br>100 kA (Supply side) |
| **SHORT-CIRCUIT CURRENT RATING (BASIC RATING)** | 150A, max. Fuse, SCCR (UL/CSA)<br>10 kA, SCCR (UL/CSA) |
| **SHORT-CIRCUIT PROTECTION RATING** | 80 A gG/gL, Fuse, Contacts |

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|---|---|
| **POWER AT AC-3, 500 V, 50 HZ** | |
| **RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ** | 30 kW |
| **RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ** | 18.5 kW |
| **RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ** | 30 kW |
| **RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ** | 45 kW |
| **RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ** | 55 kW |
| **RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX** | 690 V |
| **RATED UNINTERRUPTED CURRENT (IU)** | 63 A |
| **UNINTERRUPTED CURRENT** | Rated uninterrupted current Iu is specified for max. cross-section. |

## Switching capacity

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| **LOAD RATING** | 2 x $I_e$ (with intermittent operation class 12, 25 % duty factor)<br>1.3 x $I_e$ (with intermittent operation class 12, 60 % duty factor)<br>1.6 x $I_e$ (with intermittent operation class 12, 40 % duty factor) |
| **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 |
| **NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V** | 3 |
| **SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)** | 60 A, Rated uninterrupted current max. (UL/CSA) |
| **SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)** | 60 A, Rated uninterrupted current max. (UL/CSA) |
| **SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)** | A600 (UL/CSA)<br>P600 (UL/CSA) |
| **RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)** | 800 A |
| **VOLTAGE PER CONTACT PAIR IN SERIES** | 60 V |

## Motor rating

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| **ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE** | 3 HP |
| **ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE** | 7.5 HP |
| **ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE** | 15 HP |
| **ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE** | 10 HP |
| **ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE** | 15 HP |
| **ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE** | 40 HP |
| **ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE** | 50 HP |

## Contacts

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| **CONTROL CIRCUIT RELIABILITY** | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| **NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)** | 0 |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)** | 0 |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)** | 0 |

## Actuator

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| **ACTUATOR COLOR** | Red |
| **ACTUATOR TYPE** | Door coupling rotary drive |

## Design verification

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| **HEAT DISSIPATION CAPACITY PDISS** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID** | 4.5 W |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 63 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |
| **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 PROTECTION OF ASSEMBLIES** | Does not apply, since the 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. |

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| **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. |
| **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. |

## Resources

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| **BROCHURES** | Brochure - T Rotary Cam switch and P Switch-disconnector |
| **CATALOGUES** | P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN |
| **DECLARATIONS OF CONFORMITY** | eaton-main-switch-declaration-of-conformity-uk260194en.pdf<br><br>eaton-main-switch-declaration-of-conformity-eu260184en.pdf |
| **DRAWINGS** | eaton-rotary-switches-p3-main-switch-dimensions-012.eps<br><br>eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps<br><br>eaton-general-totally-insulated-t0-main-switch-symbol.eps<br><br>eaton-rotary-switches-surface-mounting-t0-main-switch-3d-drawing.eps<br><br>eaton-general-switch-t0-main-switch-symbol.eps<br><br>eaton-rotary-switches-t0-main-switch-symbol.eps |
| **ECAD MODEL** | ETN.P3-63_I4_SVB |
| **INSTALLATION INSTRUCTIONS** | eaton-rotary-switches-cam-switch-p3-il03801010z.pdf |
| **INSTALLATION VIDEOS** | Eaton's P Switch-disconnectors used in a factory |
| **MCAD MODEL** | eaton-erd-mcad-drawings-p3-i4-svb.dwg<br><br>eaton-erd-mcad-3d-models-p3-i4-svb.stp |
| **PEP ECO-PASSPORT** | eaton-enclosed-rotary-disconnects-pep-eato-00166-v0101-en.pdf |
| **PRODUCT NOTIFICATIONS** | MZ008006ZU_Orderform_Customized_Switch.pdf<br><br>MZ008005ZU_Orderform_Customized_Switch.pdf |

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| **WIRING DIAGRAMS** | eaton-rotary-switches-t0-on-off-switch-wiring-diagram-068.eps<br><br>eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps |

| |
|---|
| **PROJECT NAME:** |
| **PROJECT NUMBER:** |
| **PREPARED BY:** |
| **DATE:** |

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