

Specifications

Photo is representative

Eaton 207379

Eaton Moeller® series P3 Main switch, P3, 100 A, surface mounting, 3 pole + N, 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	207379
MODEL CODE	P3-100/I5/SVB/N
EAN	4015082073794
PRODUCT LENGTH/DEPTH	169 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	200 mm
PRODUCT WEIGHT	1.53 kg
CERTIFICATIONS	UL UL 60947-4-1 CSA-C22.2 No. 94 CE IEC/EN 60204 CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947 UL File No.: E36332 CSA File No.: 012528 IEC/EN 60947-3 UL Category Control No.: NLRV CSA VDE 0660
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second



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Features & Functions

FEATURES	Version as maintenance- /service switch
	Version as emergency stop installation
	Version as main switch
	Version as safety switch
FITTED WITH:	Red rotary handle and yellow locking ring
FUNCTIONS	Interlockable Emergency switching off function
LOCKING FACILITY	Lockable in the 0 (Off) position
NUMBER OF POLES	4

Climatic environmental conditions

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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

General information

ACCESSORIES	Auxiliary contact 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
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	Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting
SWITCHING ANGLE	90 °

Terminal capacities

TERMINAL CAPACITY	1 x (2.5 - 35) mm ² , solid or stranded 1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228 2 x (2.5 - 10) mm ² , solid or stranded 14 - 2 AWG, solid or flexible with ferrule
SCREW SIZE	M5, Terminal screw
TIGHTENING TORQUE	3 Nm, Screw terminals 26.5 lb-in, Screw terminals

Electrical rating

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 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 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 DC-1, LOAD-BREAK SWITCHES L/R = 1 MS 100 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, 50 A

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) 4 kA (Load side)
80 kA (Supply side)

RATED SHORT-TIME WITHSTAND CURRENT (ICW) 2 kA

SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 10 kA, SCCR (UL/CSA)
150A, max. Fuse, SCCR (UL/CSA)

SHORT-CIRCUIT PROTECTION RATING 100 A gG/gL, Fuse, Contacts

60 V

**RATED OPERATIONAL
CURRENT (IE) AT DC-23A,
120 V** 25 A

**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, 500 V, 50
HZ** 45 kW

**RATED OPERATIONAL
POWER AT AC-3, 690 V, 50
HZ** 37 kW

**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
VOLTAGE (UE) AT AC -
MAX** 690 V

**RATED UNINTERRUPTED
CURRENT (IU)** 100 A

**UNINTERRUPTED
CURRENT** Rated uninterrupted
current Iu is specified for
max. cross-section.

Switching capacity

LOAD RATING	<p>2 x I_e (with intermittent operation class 12, 25 % duty factor)</p> <p>1.6 x I_e (with intermittent operation class 12, 40 % duty factor)</p> <p>1.3 x I_e (with intermittent operation class 12, 60 % duty factor)</p>
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)	90 A, Rated uninterrupted current max. (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P600 (UL/CSA) A600 (UL/CSA)
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	950 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

Contacts

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

Motor rating

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

Actuator

ACTUATOR COLOR	Red
ACTUATOR TYPE	Door coupling rotary drive

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID 7.5 W

HEAT DISSIPATION CAPACITY PDISS 0 W

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID 7.5 W

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 100 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.
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

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-eu250811en.pdf](#)

[eaton-main-switch-declaration-of-conformity-uk251294en.pdf](#)

[eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps](#)

DRAWINGS [eaton-rotary-switches-p3-main-switch-dimensions-013.eps](#)

[eaton-rotary-switches-surface-mounting-t0-main-switch-3d-drawing.eps](#)

	eaton-general-totally-insulated-t0-main-switch-symbol.eps
	eaton-rotary-switches-t0-main-switch-symbol.eps
	eaton-general-switch-t0-main-switch-symbol.eps
ECAD MODEL	ETN.P3-100_I5_SVB_N
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-bauform15 DA-CD-bauform15
PEP ECO-PASSPORT	eaton-enclosed-rotary-disconnects-pep-eato-00163-v0101-en.pdf
PRODUCT NOTIFICATIONS	MZ008005ZU_Orderform_Customized_Switch.pdf MZ008006ZU_Orderform_Customized_Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram-002.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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