

Specifications

Eaton 237894

Eaton Moeller® series P3 Main switch, P3, 30 A, rear mounting, 3 pole, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position, UL/CSA

General specifications

PRODUCT NAME	Eaton Moeller® series P3 Main switch
CATALOG NUMBER	237894
EAN	4015082378943
PRODUCT LENGTH/DEPTH	150 mm
PRODUCT HEIGHT	114 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	0.465 kg
CERTIFICATIONS	CSA UL 489 UL489 UL UL File No.: E148671 CSA File No.: 1342868 (LR12528)
MODEL CODE	P3-30/V/SVB-MCS



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Features & Functions

FEATURES	Version as maintenance- /service switch
	Version as emergency stop installation
	Version as main switch
FITTED WITH:	Red rotary handle and yellow locking ring
FUNCTIONS	Interlockable
LOCKING FACILITY	Lockable in the 0 (Off) position
NUMBER OF POLES	3

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	50 °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

DEGREE OF PROTECTION	NEMA 12
DEGREE OF PROTECTION (FRONT SIDE)	IP65
LIFESPAN, MECHANICAL	100,000 Operations
MOUNTING METHOD	Rear 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	Branch circuits, feeder circuits, (UL/CSA) Front mounting 4-hole

Terminal capacities

TERMINAL CAPACITY	14 - 2 AWG, solid or flexible with ferrule
SCREW SIZE	M5, Terminal screw
TIGHTENING TORQUE	26.5 lb-in, Screw terminals

Electrical rating

**RATED OPERATIONAL
POWER AT AC-3, 380/400
V, 50 HZ** 0 kW

**RATED OPERATIONAL
POWER AT AC-23A, 400 V,
50 HZ** 0 kW

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

**RATED UNINTERRUPTED
CURRENT (IU)** 30 A

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

Switching capacity

LOAD RATING 2 x I_e (with intermittent
operation class 12, 25 %
duty factor)
1.3 x I_e (with intermittent
operation class 12, 60 %
duty factor)
1.6 x I_e (with intermittent
operation class 12, 40 %
duty factor)

**SWITCHING CAPACITY
(MAIN CONTACTS,
GENERAL USE)** 30 A, Rated uninterrupted
current max. (UL/CSA)

Actuator

ACTUATOR COLOR Red

ACTUATOR TYPE Door coupling rotary drive

Short-circuit rating

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

**RATED SHORT-TIME
WITHSTAND CURRENT
(ICW)** 0 kA

**SHORT-CIRCUIT CURRENT
RATING (HIGH FAULT)** 10 kA, SCCR (UL/CSA)
30 A, Class RK5, max. Fuse,
SCCR (UL/CSA)

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

Contacts

**NUMBER OF AUXILIARY
CONTACTS (CHANGE-
OVER CONTACTS)** 0

**NUMBER OF AUXILIARY
CONTACTS (NORMALLY
CLOSED CONTACTS)** 0

**NUMBER OF AUXILIARY
CONTACTS (NORMALLY
OPEN CONTACTS)** 0

Design verification

**HEAT DISSIPATION
CAPACITY PDISS** 0 W

**RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN)** 30 A

**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** Meets the product
standard's requirements.

ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	
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	Is the panel builder's

COMPATIBILITY

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](#)

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

[eaton-rotary-switches-p3-main-switch-dimensions-008.eps](#)

DRAWINGS

[eaton-rotary-switches-mounting-p1-main-switch-3d-drawing-002.eps](#)

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

[eaton-general-mounting-p1-main-switch-symbol-002.eps](#)

ECAD MODEL

[DA-CE-ETN.P3-30 V SVB-MCS](#)

INSTALLATION INSTRUCTIONS

[IL03802006Z](#)

INSTALLATION VIDEOS

[Eaton's P Switch-disconnectors used in a factory](#)

MCAD MODEL

[DA-CD-p3_zz20](#) [DA-CS-p3_zz20](#)

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.eps](#)

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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