Specifications

Photo is representative

Eaton 227861

Eaton Moeller® series P1 Main switch, P1, 25 A, surface mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position, hard knockout version

General specification	ns
PRODUCT NAME	Eaton Moeller® series P1 Main switch
CATALOG NUMBER	227861
MODEL CODE	P1-25/I2H/SVB-SW
EAN	4015082278618
PRODUCT LENGTH/DEPTH	115 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.455 kg
CERTIFICATIONS	CE IEC/EN 60947-3 CSA-C22.2 No. 60947-4-1- 14 UL 60947-4-1 IEC/EN 60947 CSA-C22.2 No. 94 CSA File No.: 012528 CSA Class No.: 3211-05 UL CSA UL File No.: E36332 VDE 0660 UL Category Control No.: NLRV IEC/EN 60204



Product specification	S
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 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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Black rotary handle and locking ring
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
RATED PERMANENT CURRENT AT AC-21, 400 V	25 A
RATED PERMANENT CURRENT AT AC-23, 400 V	25 A
RATED UNINTERRUPTED CURRENT (IU)	25 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
SWITCHING POWER AT 400 V	13 kW

VOLTAGE PER CONTACT PAIR IN SERIES	60 V
ACCESSORIES	Auxiliary contact or neutral conductor fitted by user.
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	7.5 kW
DEVICE CONSTRUCTION	Complete device in housing
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	640 A, Contacts, 1 second 0.64 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	As required
ACTUATOR TYPE	Door coupling rotary drive
AMBIENT OPERATING TEMPERATURE - MAX	40 °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	1 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE	2 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	15 HP

EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	1.1 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.1 W
NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	80 kA
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
NUMBER OF POLES MOUNTING METHOD	3 Surface mounting
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MOUNTING METHOD	Surface mounting
MOUNTING METHOD DEGREE OF PROTECTION	Surface mounting NEMA 12 Ground mounting Branch circuits, suitable as motor disconnect,
MOUNTING METHOD DEGREE OF PROTECTION SUITABLE FOR	Surface mounting NEMA 12 Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Lockable in the 0 (Off)
MOUNTING METHOD DEGREE OF PROTECTION SUITABLE FOR LOCKING FACILITY	Surface mounting NEMA 12 Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Lockable in the 0 (Off) position STOP function
MOUNTING METHOD DEGREE OF PROTECTION SUITABLE FOR LOCKING FACILITY FUNCTIONS	Surface mounting NEMA 12 Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Lockable in the 0 (Off) position STOP function Interlockable
MOUNTING METHOD DEGREE OF PROTECTION SUITABLE FOR LOCKING FACILITY FUNCTIONS NUMBER OF SWITCHES	Surface mounting NEMA 12 Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Lockable in the 0 (Off) position STOP function Interlockable 1 440 V AC, Between the contacts, According to EN
MOUNTING METHOD DEGREE OF PROTECTION SUITABLE FOR LOCKING FACILITY FUNCTIONS NUMBER OF SWITCHES SAFE ISOLATION	Surface mounting NEMA 12 Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Lockable in the 0 (Off) position STOP function Interlockable 1 440 V AC, Between the contacts, According to EN 61140
MOUNTING METHOD DEGREE OF PROTECTION SUITABLE FOR LOCKING FACILITY FUNCTIONS NUMBER OF SWITCHES SAFE ISOLATION SCREW SIZE	Surface mounting NEMA 12 Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Lockable in the 0 (Off) position STOP function Interlockable 1 440 V AC, Between the contacts, According to EN 61140 M4, Terminal screw 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-

	$1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor) $2 \times l_e$ (with intermittent operation class 12, 25 % duty factor)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P600 (UL/CSA) A600 (UL/CSA)
TERMINAL CAPACITY	2 x (1.5 - 6) mm ² , solid or stranded 2 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 1 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrule 1 x (1.5 - 6) mm ² , solid or stranded
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	20 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	3
IN SERIES AT DC-23A, 120	1
IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS	
IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS	1
IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V NUMBER OF CONTACTS	1 2
IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V RATED BREAKING CAPACITY AT 220/230 V	2 2
IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3) RATED BREAKING CAPACITY AT 400/415 V	1 2 2 2 190 A

(COS PHI TO IEC 60947-3)	
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	240 A
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)	50 A, Class J, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	25 A gG/gL, Fuse, Contacts
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	17.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	12.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	19.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	15.2 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	12.1 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	8.8 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES	25 A

L/R = 1 MS	
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	12 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	25 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	7.5 kW
TIGHTENING TORQUE	1.6 Nm, Screw terminals 14.1 lb-in, Screw terminals
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.
RATED SWITCHING CAPACITY	1 HP at 120 V AC, single- phase 10 HP at 480 V AC, three- phase 15 HP at 600 V AC, three- phase 2 HP at 200 V AC, single- phase

3 HP at 200 V AC, three-
phase
3 HP at 240 V AC, single-
phase
5 HP at 240 V AC, three-
phase

Resources	
BROCHURES	Brochure - T Rotary Cam switch and P Switch- disconnector
CATALOGS	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
DECLARATIONS OF CONFORMITY	DA-DC-00005061.pdf DA-DC-00005059.pdf
	eaton-rotary-switches-padlock-t0-main-switch- dimensions.eps
	eaton-rotary-switches-surface-mounting-p1- main-switch-dimensions.eps
DRAWINGS	eaton-rotary-switches-surface-mounting-t0- main-switch-3d-drawing.eps
	eaton-rotary-switches-t0-main-switch- symbol.eps
	eaton-general-switch-t0-main-switch-symbol.eps
	eaton-general-totally-insulated-t0-main-switch- symbol.eps
ECAD MODEL	ETN.227861.edz
INSTALLATION INSTRUCTIONS	eaton-switch-discon-p1-insulated-enclosure- il03802001z.pdf
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-bauform5 DA-CD-bauform5
PRODUCT	MZ008005ZU Orderform Customized Switch.pdf
NOTIFICATIONS	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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