Specifications

Eaton 081438

Eaton Moeller® series P1 Main switch, P1, 32 A, flush mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

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General specification	S
PRODUCT NAME	Eaton Moeller® series P1 Main switch
CATALOG NUMBER	081438
MODEL CODE	P1-32/EA/SVB
EAN	4015080814382
PRODUCT LENGTH/DEPTH	120 mm
PRODUCT HEIGHT	70 mm
PRODUCT WIDTH	49 mm
PRODUCT WEIGHT	0.192 kg
CERTIFICATIONS	UL 60947-4-1 UL Category Control No.: NLRV CSA CSA-C22.2 No. 60947-4-1- 14 UL CSA Class No.: 3211-05 IEC/EN 60204
	IEC/EN 60947 IEC/EN 60947-3 CE CSA File No.: 012528 CSA-C22.2 No. 94 VDE 0660 UL File No.: E36332
CATALOG NOTES	IEC/EN 60947-3 CE CSA File No.: 012528 CSA-C22.2 No. 94 VDE 0660



Product specification	S
PRODUCT CATEGORY	Main switch
FEATURES	Version as emergency stop installation Version as main switch Version as maintenance- /service switch
ACTUATOR COLOR	Red
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. D.3 DEGREE OF ROTECTION OF SSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's
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00 V
OLTAGE PER CONTACT AIR IN SERIES 60 V
CCESSORIES Auxiliary contact or

	neutral conductor fitted by user.
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	18.5 kW
DEVICE CONSTRUCTION	Built-in device fixed built- in technique
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	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	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	7.5 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	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.8 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	Ш
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	Flush mounting
DEGREE OF PROTECTION	NEMA 1
SUITABLE FOR	Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting 4-hole
LOCKING FACILITY	Lockable in the 0 (Off) position
FUNCTIONS	Interlockable Emergency switching off function
NUMBER OF SWITCHES	1
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
SCREW SIZE	M4, Terminal screw
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms
LIFESPAN, MECHANICAL	300,000 Operations
LOAD RATING	$2 \times l_e$ (with intermittent operation class 12, 25 % duty factor) $1.3 \times l_e$ (with intermittent operation class 12, 60 % duty factor) $1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor)
SWITCHING CAPACITY	10A, IU, (UL/CSA)

(AUXILIARY CONTACTS, GENERAL USE)	
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600 (UL/CSA) P600 (UL/CSA)
TERMINAL CAPACITY	1 x (1 - 4) mm², flexible with ferrules to DIN 46228 2 x (1 - 4) mm², flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm², solid or stranded 1 x (1.5 - 6) mm², solid or stranded
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	30 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)	260 A
RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	300 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	290 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	250 A
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	320 A
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL	690 V

VOLTAGE (UE) AT AC - MAX	
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	50 A gG/gL, Fuse, Contacts
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	30 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	19.8 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	26.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	26.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	23.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	14.7 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	32 A
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)	32 A
RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	18.5 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	15 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.
HOUSING MATERIAL	Plastic

Resources	
BROCHURES	Brochure - T Rotary Cam switch and P Switch- disconnector
CATALOGS	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
DECLARATIONS OF	eaton-main-switch-declaration-of-conformity- eu250807en.pdf
CONFORMITY	eaton-main-switch-declaration-of-conformity- uk251290en.pdf
	<u>eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps</u>
	eaton-rotary-switches-mounting-p1-main-switch-dimensions.eps
DRAWINGS	eaton-rotary-switches-t0-main-switch- symbol.eps
	eaton-rotary-switches-mounting-p1-main-switch- 3d-drawing.eps
	eaton-general-mounting-p1-main-switch- symbol.eps

ECAD MODEL	ETN.081438.edz
INSTALLATION INSTRUCTIONS	eaton-switch-disconnector-p1-flush-mounting- il03802003z.pdf
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-p1_zz10 DA-CD-p1_zz10
PEP ECO- PASSPORT	EATO-00169-V01.01-EN.pdf
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:



Eaton Corporation plc Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

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