

Eaton 027378

Eaton Moeller® series P1 On-Off switch, P1, 32 A, service distribution board mounting, 3 pole + N, Emergency switching off function, with red thumb grip and yellow front plate

PRODUCT NAME	Eaton Moeller® series P1 On-off switch
CATALOG NUMBER	027378
PRODUCT LENGTH/DEPTH	90 mm
PRODUCT HEIGHT	70 mm
PRODUCT WIDTH	63 mm
PRODUCT WEIGHT	0.183 kg
CERTIFICATIONS	IEC/EN 60947-3 UL CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1- 14 CE CSA-C22.2 No. 94 UL 60947-4-1 CSA IEC/EN 60947 UL Category Control No.: NLRV IEC/EN 60204 UL File No.: E36332 VDE 0660 CSA File No.: 012528
CATALOG NOTES	Rated Short-time Withstand Current (lcw) for a time of 1 second



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PRODUCT CATEGORY	On-Off 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.
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10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	·
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Does not apply, since the entire switchgear needs to
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.5 LIFTING 10.2.6 MECHANICAL IMPACT	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. Meets the product

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DECLARATIONS OF CONFORMITY	eaton-main-switch- declaration-of-conformity- uk251290en.pdf
000	eaton-rotary-switches-on- off-switch-p3-main-switch- wiring-diagram-002.eps
	eaton-rotary-switches- mounting-p1-on-off- switch-dimensions- 002.eps
00	eaton-general-rotary- switch-t0-step-switch- symbol-005.eps
	eaton-rotary-switches- front-plate-t0-on-off- switch-symbol-003.eps

CREEPAGE DISTANCES	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:	Red thumb grip and yellow front plate
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	32 A
RATED PERMANENT CURRENT AT AC-23, 400 V	32 A
RATED UNINTERRUPTED CURRENT (IU)	32 A
	32 A 0 W
CURRENT (IU) STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	
CURRENT (IU) STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS SWITCHING POWER AT	0 W
CURRENT (IU) STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS SWITCHING POWER AT 400 V VOLTAGE PER CONTACT	0 W 15 kW
CURRENT (IU) STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS SWITCHING POWER AT 400 V VOLTAGE PER CONTACT PAIR IN SERIES	0 W 15 kW 60 V Auxiliary contact fitted by
CURRENT (IU) STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS SWITCHING POWER AT 400 V VOLTAGE PER CONTACT PAIR IN SERIES ACCESSORIES	0 W 15 kW 60 V Auxiliary contact fitted by user. Built-in device fixed built-

(ICW)	
(ICW)	
CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	As required
ACTUATOR TYPE	Short thumb-grip
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	III
CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
DEGREE OF PROTECTION (FRONT SIDE)	IP30
NUMBER OF POLES	4
MOUNTING METHOD	Service distribution board mounting
DEGREE OF PROTECTION	NEMA Other
SUITABLE FOR	Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA)
FUNCTIONS	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	$1.3 \times l_e$ (with intermittent operation class 12, 60 % duty factor) $2 \times l_e$ (with intermittent operation class 12, 25 % duty factor) $1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600 (UL/CSA) P600 (UL/CSA)
TERMINAL CAPACITY	1 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm ² , solid or stranded 2 x (1 - 4) mm ² , flexible with ferrules to DIN 46228

1 x (1.5 - 6) mm², solid or stranded 14 - 8 AWG, solid or flexible with ferrule	
SWITCHING CAPACITY	
(MAIN CONTACTS, GENERAL USE) 30 A, Rated uninterrupted current max. (UL/CSA)	
SAFETY PARAMETER (EN B10d values as per EN ISC 13849-1) 13849-1, table C.1)
NUMBER OF AUXILIARY CONTACTS (NORMALLY 0 OPEN CONTACTS)	
NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 3 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 260 A (COS PHI TO IEC 60947-3)	
RATED BREAKING CAPACITY AT 400/415 V 300 A (COS PHI TO IEC 60947-3)	
RATED BREAKING CAPACITY AT 500 V (COS 290 A PHI TO IEC 60947-3)	
RATED BREAKING CAPACITY AT 660/690 V 250 A (COS PHI TO IEC 60947-3)	
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	
RATED OPERATING VOLTAGE (UE) - MAX	
RATED OPERATING VOLTAGE (UE) - MIN	
RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	
MAX	
SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)	
SHORT-CIRCUIT CURRENT RATING (RASIC RATING) 5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	

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	18.5 kW

POWER AT AC-23A, 500 V, 50 HZ **RATED OPERATIONAL POWER AT AC-23A, 690 V,** 15 kW 50 HZ **RATED OPERATIONAL POWER AT AC-3, 380/400** 13 kW V, 50 HZ **RATED OPERATIONAL POWER AT AC-3, 415 V, 50** 13 kW ΗZ **RATED OPERATIONAL POWER AT AC-3, 690 V, 50** 15 kW ΗZ 14.1 lb-in, Screw terminals **TIGHTENING TORQUE** 1.6 Nm, Screw terminals Rated uninterrupted UNINTERRUPTED

current lu is specified for

max. cross-section.

Plastic

PROJECT NAME:

CURRENT

HOUSING MATERIAL

PROJECT NUMBER:

PREPARED BY:

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Eaton House 30 Pembroke Road Dublin 4, □□□ Eaton.com

information.





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