Eaton 197345

Eaton Moeller® series P1 On-Off switch, P1, 25 A, 3 pole + N, surface mounting, with black thumb grip and front plate, in steel enclosure

PRODUCT NAME	Eaton Moeller® series P1 On-off switch
CATALOG NUMBER	197345
PRODUCT LENGTH/DEPTH	200 mm
PRODUCT HEIGHT	127 mm
PRODUCT WIDTH	150 mm
PRODUCT WEIGHT	1.675 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947 IEC/EN 60204 IEC/EN 60947-3

Powering Business Worldwide

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PRODUCT CATEGORY	On-Off switch
FEATURES	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	Does not apply, since the entire switchgear needs to

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DECLARATIONS OF CONFORMITY	eaton-on-off-switch-declaration-of-conformity-uk251288en.pdf
□□□□□	IL008054ZU
□□□	eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram-002.eps
□□	eaton-rotary-switches-t0-main-switch-dimensions-003.eps eaton-rotary-switches-t0-changeover-switch-3d-drawing.eps eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps

ASSEMBLIES	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.
FITTED WITH:	Black thumb grip and front plate
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
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
SWITCHING ANGLE	90 °
SWITCHING POWER AT 400 V	11 kW
VOLTAGE PER CONTACT PAIR IN SERIES	60 V
ACCESSORIES	Auxiliary contact fitted by user.
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	Short thumb-grip
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	50 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	Three-pole
MOUNTING METHOD	Surface mounting
DEGREE OF PROTECTION	NEMA 12
SUITABLE FOR	Ground mounting
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 x I_e (with intermittent operation class 12, 60 % duty factor) 2 x I_e (with intermittent operation class 12, 25 % duty factor) 1.6 x I_e (with intermittent operation class 12, 40 % duty factor)
TERMINAL CAPACITY	2 x (1 - 4) mm², flexible with ferrules to DIN 46228 1 x (1 - 4) mm², flexible

	with ferrules to DIN 46228 1 x (1.5 - 6) mm², solid or stranded 2 x (1.5 - 6) mm², solid or stranded
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)	190 A
RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	150 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	170 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	150 A
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 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,	25 A

400 V, 415 V	
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	17.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	12 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 L/R = 1 MS	25 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 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	14 Nm, Screw terminals 1.6 Nm, Screw terminals
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.
HOUSING MATERIAL	Plastic

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
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