Eaton 172781

Eaton Moeller® series P1 Main switch, P1, 32 A, rear mounting, 3 pole, 1 N/O, 1 N/C, STOP function, with black rotary handle and lock ring (K series), Lockable in the 0 (Off) position, With metal shaft for a control panel depth of 400 mm

PRODUCT NAME	Eaton Moeller® series P1 Main switch
CATALOG NUMBER	172781
PRODUCT LENGTH/DEPTH	340 mm
PRODUCT HEIGHT	70 mm
PRODUCT WIDTH	71 mm
PRODUCT WEIGHT	0.345 kg
CERTIFICATIONS	IEC/EN 60204 IEC/EN 60947-3 IEC/EN 60947 VDE 0660
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second



Main switch
Version as main switch
Gray
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Meets the product standard's requirements.
UV resistance only in connection with protective shield.
Does not apply, since the entire switchgear needs to be evaluated.
entire switchgear needs to

eaton-switch- disconnector-p1-metal- shaft-il008007zu.pdf
eaton-rotary-switches-p1- main-switch-dimensions- 011.eps
eaton-rotary-switches- front-plate-t0-on-off- switch-symbol-002.eps

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	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 Metal shaft for a control panel depth of 400 mm
OPERATING FREQUENCY	1200 Operations/h
OPERATING FREQUENCY POLLUTION DEGREE	1200 Operations/h
POLLUTION DEGREE	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
POLLUTION DEGREE CLIMATIC PROOFING RATED IMPULSE WITHSTAND VOLTAGE	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
POLLUTION DEGREE CLIMATIC PROOFING RATED IMPULSE WITHSTAND VOLTAGE (UIMP) RATED PERMANENT	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 6000 V AC
POLLUTION DEGREE CLIMATIC PROOFING RATED IMPULSE WITHSTAND VOLTAGE (UIMP) RATED PERMANENT CURRENT AT AC-21, 400 V RATED PERMANENT	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 6000 V AC
POLLUTION DEGREE CLIMATIC PROOFING RATED IMPULSE WITHSTAND VOLTAGE (UIMP) RATED PERMANENT CURRENT AT AC-21, 400 V RATED PERMANENT CURRENT AT AC-23, 400 V RATED UNINTERRUPTED	3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 6000 V AC 32 A 32 A

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	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	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
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)	1
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
MOUNTING METHOD	Rear mounting
DEGREE OF PROTECTION	NEMA 12
SUITABLE FOR	Ground mounting Intermediate mounting
LOCKING FACILITY	Lockable in the 0 (Off) position
FUNCTIONS	STOP function Interlockable
NUMBER OF SWITCHES	1
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms
LIFESPAN, MECHANICAL	300,000 Operations
LOAD RATING	$1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor) $2 \times l_e$ (with intermittent operation class 12, 25 % duty factor) $1.3 \times l_e$ (with intermittent operation class 12, 60 % duty factor)
TERMINAL CAPACITY	2 x (1 - 4) mm², flexible with ferrules to DIN 46228 1 x (1 - 4) mm², flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm², solid or stranded 1 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)	1
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 VOLTAGE (UE) AT AC - MAX	690 V
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
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.

PROJECT NUMBER:

PREPARED BY:



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information.





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