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Eaton 207299

Eaton Moeller® series P1 On-Off switch, 3 pole, 25 A, surface mounting P1-25/I2

General specifications

PRODUCT NAME	Eaton Moeller® series P1 On-off switch
CATALOG NUMBER	207299
EAN	4015082072995
PRODUCT LENGTH/DEPTH	107 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.43 kg
CERTIFICATIONS	IEC/EN 60204 CSA IEC/EN 60947 IEC/EN 60947-3 VDE 0660 UL
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second
MODEL CODE	P1-25/I2

Features & Functions

FITTED WITH: Black thumb grip and front plate

NUMBER OF POLES 3

General

ACCESSORIES Auxiliary contact or neutral conductor fitted by user.

DEGREE OF PROTECTION NEMA 12

DEGREE OF PROTECTION (FRONT SIDE) IP65

LIFESPAN, MECHANICAL 300,000 Operations

MOUNTING METHOD Surface mounting

MOUNTING POSITION As required

OPERATING FREQUENCY 1200 Operations/h

OVERVOLTAGE CATEGORY III

POLLUTION DEGREE 3

PRODUCT CATEGORY On-Off switch

RATED IMPULSE WITHSTAND VOLTAGE (UIMP) 6000 V AC

SAFE ISOLATION 440 V AC, Between the contacts, According to EN 61140

SAFETY PARAMETER (EN ISO 13849-1) B10d values as per EN ISO 13849-1, table C.1

SHOCK RESISTANCE 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms

SUITABLE FOR Ground mounting

SWITCHING ANGLE 90 °

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN -25 °C

AMBIENT OPERATING TEMPERATURE - MAX 40 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN -25 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX 40 °C

CLIMATIC PROOFING Damp heat, cyclic, to IEC 60068-2-30
Damp heat, constant, to IEC 60068-2-78

Terminal capacities

TERMINAL CAPACITY 1 x (1.5 - 6) mm², solid or stranded
2 x (1.5 - 6) mm², solid or stranded
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

SCREW SIZE M4, Terminal screw

TIGHTENING TORQUE 14.1 lb-in, Screw terminals
1.6 Nm, Screw terminals

Electrical rating

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 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 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 DC-1, LOAD-BREAK SWITCHES L/R = 1 MS 25 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, 25 A

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) 80 kA

RATED SHORT-TIME WITHSTAND CURRENT (ICW) 640 A, Contacts, 1 second
0.64 kA

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

60 V

**RATED OPERATIONAL
CURRENT (IE) AT DC-23A,
120 V** 12 A

**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

**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
VOLTAGE (UE) AT AC -
MAX** 690 V

**RATED UNINTERRUPTED
CURRENT (IU)** 25 A

**UNINTERRUPTED
CURRENT** Rated uninterrupted
current Iu is specified for
max. cross-section.

Switching capacity

LOAD RATING	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) 1.3 x I _e (with intermittent operation class 12, 60 % duty factor)
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
NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V	3
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	20 A, Rated uninterrupted current max. (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600 (UL/CSA) P600 (UL/CSA)
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	240 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

Contacts

CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

Motor rating

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

Actuator

ACTUATOR COLOR	Black
ACTUATOR TYPE	Short thumb-grip

Design verification

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
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
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.

Resurse

DECLARATIONS OF CONFORMITY	eaton-on-off-switch-declaration-of-conformity-uk251288en.pdf
DESENE	eaton-rotary-switches-surface-mounting-p1-on-off-switch-dimensions.eps eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps
SCHEME ELECTRICE	eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps eaton-rotary-switches-t0-on-off-switch-wiring-diagram-068.eps

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.
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.

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATA:



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