

Specifications



Photo is representative



Eaton 081439

Eaton Moeller® series P3 On-Off switch, P3, 100 A, service distribution board mounting, 3 pole, with black thumb grip and front plate, Lockable in the 0 (Off) position

General specifications

PRODUCT NAME	Eaton Moeller® series P3 On-off switch
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CATALOG NUMBER	081439
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MODEL CODE	P3-100/IVS
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EAN	4015080814399
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PRODUCT LENGTH/DEPTH	90 mm
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PRODUCT HEIGHT	90 mm
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PRODUCT WIDTH	90 mm
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PRODUCT WEIGHT	0.288 kg
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CERTIFICATIONS	UL File No.: E36332 CE UL 60947-4-1 UL Category Control No.: NLRV IEC/EN 60204 CSA Class No.: 3211-05 IEC/EN 60947 IEC/EN 60947-3 CSA File No.: 012528 CSA-C22.2 No. 94 VDE 0660 CSA-C22.2 No. 60947-4-1-14 CSA UL
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CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second
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Actuator

ACTUATOR COLOR	Black
ACTUATOR TYPE	Short thumb-grip

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

Climatic environmental conditions

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

Design verification

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	Meets the product standard's requirements.
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.
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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	7.5 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	100 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Electrical rating

RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)	760 A
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RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	740 A
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RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	880 A
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RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	520 A
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RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	100 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	100 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	100 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	96 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	68 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	71 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	71 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	65 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	23.8 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	100 A
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RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	25 A
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RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	50 A
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RATED OPERATIONAL CURRENT (IE) AT DC-23A,	50 A
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Features & functions

FITTED WITH:	Black thumb grip and front plate
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LOCKING FACILITY	Lockable in the 0 (Off) position
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NUMBER OF POLES	3
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48 V	
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	50 A
RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	30 kW
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	45 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	37 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	100 A
UNINTERRUPTED CURRENT	Rated uninterrupted current I _u is specified for max. cross-section.

General information

ACCESSORIES	Auxiliary contact or neutral conductor fitted by user.
DEGREE OF PROTECTION	NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP30
LIFESPAN, MECHANICAL	100,000 Operations
MOUNTING METHOD	Service distribution board 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	Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA)

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	4 kA (Load side) 80 kA (Supply side)
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	2 kA
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	10 kA, SCCR (UL/CSA) 150A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	100 A gG/gL, Fuse, Contacts

Motor rating

ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE 5 HP

ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE 10 HP

ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE 20 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE 15 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE 25 HP

ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE 60 HP

ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE 75 HP

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, 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 MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	950 A
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600 (UL/CSA) P600 (UL/CSA)
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	100 A, If used with neutral conductor IU = max. 90 A, Rated uninterrupted current max. (UL/CSA)
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

Terminal capacities

SCREW SIZE	M5, Terminal screw
TERMINAL CAPACITY	1 x (2.5 - 35) mm ² , solid or stranded 1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 2 x (2.5 - 10) mm ² , solid or stranded 14 - 2 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228
TIGHTENING TORQUE	3 Nm, Screw terminals 26.5 lb-in, Screw terminals

Resources

BROCHURES	Brochure - T Rotary Cam switch and P Switch-disconnector
CATALOGUES	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
DECLARATIONS OF CONFORMITY	eaton-main-switch-declaration-of-conformity-eu250809en.pdf eaton-main-switch-declaration-of-conformity-uk251292en.pdf
DRAWINGS	eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps eaton-rotary-switches-switching-p3-on-off-switch-dimensions-002.eps

	eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing.eps eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps eaton-general-rotary-switch-t0-step-switch-symbol-005.eps
ECAD MODEL	DA-CE-ETN.P3-100_IVS
INSTALLATION INSTRUCTIONS	eaton-switch-disconnector-p3-rear-mounting-il03802005z.pdf
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	eaton-erd-mcad-3d-models-p3-ivs.stp eaton-enclosed-rotary-disconnects-mcad-drawings-p3-zz21.dwg eaton-erd-mcad-drawings-p3-ivs.dwg
PRODUCT NOTIFICATIONS	MZ008005ZU Orderform Customized Switch.pdf 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:



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