Specifications

Photo is representative

Eaton 280899

Eaton Moeller® series P5 Main switch, P5, 125 A, flush mounting, 3 pole, 1 N/O, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

General specificatio	ns
PRODUCT NAME	Eaton Moeller® series P5 Main switch
CATALOG NUMBER	280899
EAN	4015082808990
PRODUCT LENGTH/DEPTH	115 mm
PRODUCT HEIGHT	150 mm
PRODUCT WIDTH	130 mm
PRODUCT WEIGHT	1.212 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	EN 60947-3 IEC 60947 CSA Std. C22.2 No. 14-05 UL 508 VDE UL CSA Class No.: 3211-05 IEC/EN 60947-3 CSA-C22.2 No. 14-05 CSA-C22.2 No. 94 CSA UL Category Control No.: NLRV, NLRV7 CE VDE 0660 IEC/EN 60204 IEC/EN 60947 CSA File No.: 223805 UL File No.: E36332
CATALOG NOTES	Rated Short-time Withstand Current (lcw) for a time of 1 second
MODEL CODE	P5-125/EA/SVB/HI10



Features & Function	S
FEATURES	Version as emergency stop installation Version as maintenance- /service switch Version as main switch
FITTED WITH:	Red rotary handle and yellow locking ring
FUNCTIONS	Interlockable Emergency switching off function
LOCKING FACILITY	Lockable in the 0 (Off) position
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	100,000 Operations
MOUNTING METHOD	Flush mounting
MOUNTING POSITION	As required
OPERATING FREQUENCY	50 Operations/h
OVERVOLTAGE CATEGORY	Ш
POLLUTION DEGREE	3
PRODUCT CATEGORY	Main switch
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 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
SUITABLE FOR	Front mounting 4-hole Branch circuits, suitable as motor disconnect, (UL/CSA)

Climatic environmental conditions	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	50 °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

1 x 13 x 3 mm Number of segments x width x thickness, copper strip 2 x 13 x 1.5 mm Number of segments x width x thickness, copper strip 1 x 70 mm², flexible with ferrules to DIN 46228 2 x 35 mm², solid or stranded 2/0 AWG, flexible 3/0 AWG, solid or flexible conductor with ferrule 1 x 95 mm², solid or stranded 2 x 25 mm², flexible with ferrules to DIN 46228
5 mm AF, Hexagon socket- head spanner, Terminal

	screw
TIGHTENING TORQUE	14 Nm, Screw terminals 125 lb-in, Screw terminals

Electrical rating	
RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)	800 A
RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	750 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	650 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	340 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	72 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	66 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	58 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	125 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	96 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	80 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	78 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	39 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	125 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	125 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	125 A

Short-circuit rating	
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	30 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	2.5 kA 2,5 kA, Contacts, 1 second
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	350A Class RK1, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)	300 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	125 A gG/gL, Fuse, Contacts

RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	125 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	40 A
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, 690 V, 50 HZ	30 kW
RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	30 kW
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	45 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	37 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	125 A
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.

Switching capacity	
LOAD RATING	$2 \times I_e$ (with intermittent operation class 12, 25 % duty factor) $1.6 \times I_e$ (with intermittent operation class 12, 40 % duty factor) $1.3 \times I_e$ (with intermittent operation class 12, 60 % duty factor)
NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V	3
NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V	3
NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V	3
NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V	3
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	150 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)
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	850 A
VOLTAGE PER CONTACT PAIR IN SERIES	42 V

PAIR IN SERIES

Motor rating	
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 3-PHASE	15 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	20 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 277 V, 60 HZ, 1-PHASE	20 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	60 HP

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)	1

Red
Door coupling rotary drive

Design verification	
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	3.1 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	3.1 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	125 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.

	Resources	
	BROCHURES	Brochure - T Rotary Cam switch and P Switch- disconnector
	CATALOGUES	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
	DECLARATIONS OF	DA-DC-00004899.pdf
CONFORMI	CONFORMITY	DA-DC-00004930.pdf
		eaton-rotary-switches- padlock-t0-main-switch- dimensions.eps
		eaton-rotary-switches- mounting-p5-main-switch- dimensions-003.eps
nents.	DRAWINGS	eaton-general-mounting- p1-main-switch- symbol.eps
nents.		eaton-rotary-switches- mounting-p1-main-switch- 3d-drawing.eps
nents.		eaton-rotary-switches-t0- main-switch-symbol.eps
	ECAD MODEL	ETN.280899.edz
nents.	INSTALLATION INSTRUCTIONS	I <u>L03802010Z</u>
n n	INSTALLATION VIDEOS	Eaton's P Switch- disconnectors used in a factory
etective	MCAD MODEL	p5 125 ea svb hi10
e the eeds to		p5 125 ea svb hi10.stp
ce the	WIRING DIAGRAMS	eaton-rotary-switches-p5- main-switch-wiring- diagram-003.eps
eeds to		

Does not apply, since the entire switchgear needs to be evaluated.
ls the panel builder's responsibility.
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ls the panel builder's responsibility.
Is the panel builder's responsibility.
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.

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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