

Main switch, P5, 125 A, flush mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position



Powering Business Worldwide™

**Part no. P5-125/EA/SVB-SW
280911**

General specifications	
Product name	Eaton Moeller® series P5 Main switch
Part no.	P5-125/EA/SVB-SW
EAN	4015082809119
Product Length/Depth	115 millimetre
Product height	150 millimetre
Product width	130 millimetre
Product weight	1.159 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 EN 60947-3 IEC 60947 UL 508 VDE CSA-C22.2 No. 14-05 CE VDE 0660 IEC/EN 60204 CSA File No.: 223805 UL CSA-C22.2 No. 94 IEC/EN 60947 IEC/EN 60947-3 CSA UL Category Control No.: NLRV, NLRV7 CSA Class No.: 3211-05 UL File No.: E36332
Product Tradename	P5
Product Type	Main switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Features	Version as maintenance-/service switch Version as main switch
Fitted with:	Black rotary handle and locking ring
Functions	STOP function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	3
General information	
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	III
Pollution degree	3
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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity	2 x 25 mm ² , flexible with ferrules to DIN 46228 1 x 13 x 3 mm Number of segments x width x thickness, copper strip 3/0 AWG, solid or flexible conductor with ferrule 2/0 AWG, flexible 1 x 95 mm ² , solid or stranded 1 x 70 mm ² , flexible with ferrules to DIN 46228 2 x 35 mm ² , solid or stranded 2 x 13 x 1.5 mm Number of segments x width x thickness, copper strip
Screw size	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 I/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
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, 500 V, 50 Hz	45 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 Iu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	30 kA
Rated short-time withstand current (Icw)	2,5 kA, Contacts, 1 second 2.5 kA
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)	65 kA, SCCR (UL/CSA) 300 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	125 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.3 x I# (with intermittent operation class 12, 60 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % 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
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)		0
Actuator		
Actuator color		Black
Actuator type		Door coupling rotary drive
Design verification		
Equipment heat dissipation, current-dependent Pvid		3.1 W
Heat dissipation capacity Pdis		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.
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.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnecter (low voltage) (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec@ss13-27-37-14-03 [AKF060018])			
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage Ue AC		V	690
Rated operating voltage		V	690
Rated permanent current Iu		A	125
Rated permanent current at AC-23, 400 V		A	125
Rated permanent current at AC-21, 400 V		A	125
Rated operation power at AC-3, 400 V		kW	37
Rated short-time withstand current Icw		kA	2.5
Rated operation power at AC-23, 400 V		kW	45
Switching power at 400 V		kW	45
Conditioned rated short-circuit current Iq		kA	30
Number of poles			3
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			No
Device construction			Built-in device fixed built-in technique
Suitable for floor mounting			No
Suitable for front mounting 4-hole			Yes
Suitable for front mounting centre			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Colour control element			Black
Type of control element			Door coupling rotary drive
Interlockable			Yes
Type of electrical connection of main circuit			Frame clamp
With pre-assembled cabling			No
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			12
Width		mm	130
Height		mm	150
Depth		mm	115
Width in number of modular spacings			