Main switch, P5, 125 A, rear mounting, 3 pole + N, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position $\frac{1}{2}$



Part no. P5-125/V/SVB/N

280916

EL Number 1417178

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series P5 Main switch
Part no.	P5-125/V/SVB/N
EAN	4015082809164
Product Length/Depth	150 millimetre
Product height	150 millimetre
Product width	130 millimetre
Product weight	1.645 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 UL 508 EN 60947-3 IEC 60947 VDE IEC/EN 60947-3 CSA UL CSA Class No.: 3211-05 UL Category Control No.: NLRV, NLRV7 CSA-C22.2 No. 94 IEC/EN 60204 VDE 0660 CE UL File No.: E36332 IEC/EN 60947 CSA-C22.2 No. 14-05 CSA File No.: 223805 CSA UL
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 emergency stop installation 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	4
General information	
Accessories	Auxiliary contact fitted by user.
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	100,000 Operations
Mounting method	Rear mounting
Mounting position	As required
Operating frequency	50 Operations/h
Overvoltage category	III
Pollution degree	3
· onduon dogree	3
Rated impulse withstand voltage (Uimp)	8000 V AC
-	

Suitable for	Branch circuits, suitable as motor disconnect, (UL/CSA) Intermediate mounting
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	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 3/0 AWG, solid or flexible conductor with ferrule 2 x 25 mm², flexible with ferrules to DIN 46228 2 x 35 mm², solid or stranded 1 x 95 mm², solid or stranded 1 x 70 mm², flexible with ferrules to DIN 46228 2/0 AWG, flexible
Screw size	5 mm AF, Hexagon socket-head spanner, Terminal screw
Tightening torque	125 lb-in, Screw terminals 14 Nm, 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 (le) at AC-3, 500 V	58 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	32 A
Rated operational current (le) at AC-21, 440 V	125 A
Rated operational current (le) at AC-23A, 230 V	96 A
Rated operational current (le) at AC-23A, 400 V, 415 V	80 A
Rated operational current (le) at AC-23A, 500 V	78 A
Rated operational current (le) 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 (le) at DC-23A, 24 V	125 A
Rated operational current (le) at DC-23A, 48 V	125 A
Rated operational current (le) 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 lu 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)	10 kA, SCCR (UL/CSA) 350A Class RK1, max. Fuse, 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

witching capacity	
Load rating	2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 1.3 x I# (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
lotor 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, 1- phase	30 HP
Assigned motor power at 277 V, 60 Hz, 1-phase	20 HP
Assigned motor power at 460/480 V, 60 Hz, 1-phase	60 HP
Assigned motor power at 400/400 V, 60 Hz, 3-phase Assigned motor power at 575/600 V, 60 Hz, 3-phase	60 HP
	00 111
ontacts	
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
ctuator	
	Dad
Actuator color	Red
Actuator type	Door coupling rotary drive
esign 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.
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

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 disconnector (low voltage) (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

Electric engineering, automation, process control engineering / Low-voltage switch ([AKF060018])	technology / Uπ-II	ioad swit	ton, circuit breaker, control switch / Switch disconnector (eci@ss13-27-37-14-03
Version as main switch		Y	⁄es
Version as maintenance-/service switch		Y	⁄es
Version as safety switch		N	No
Version as emergency stop installation		Y	/es
Version as reversing switch		N	No
Number of switches		1	l
Max. rated operation voltage Ue AC	V	6	690
Rated operating voltage	V	6	690 - 690
Rated permanent current lu	А	1	125
Rated permanent current at AC-23, 400 V	А	1	125
Rated permanent current at AC-21, 400 V	А	1	125
Rated operation power at AC-3, 400 V	kW	V 3	37
Rated short-time withstand current lcw	kA	. 2	2.5
Rated operation power at AC-23, 400 V	kW	V 4	15
Switching power at 400 V	kW	V 4	15
Conditioned rated short-circuit current Iq	kA	. 3	30
Number of poles		4	1
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		N	No
Motor drive integrated		N	No
Voltage release optional		N	No
Device construction		E	Built-in device fixed built-in technique
Suitable for floor mounting		N	No
Suitable for front mounting 4-hole		N	No
Suitable for front mounting centre		N	No
Suitable for distribution board installation		N	No
Suitable for intermediate mounting		Y	/es
Colour control element		F	Red
Type of control element		0	Door coupling rotary drive
Interlockable		Y	/es
Type of electrical connection of main circuit		F	Frame clamp
With pre-assembled cabling		N	No
Degree of protection (IP), front side		I	P65
Degree of protection (NEMA)		1	12
Width	mm	m 1	130
Height	mm	m 1	150
Depth	mm	m 1	150
Width in number of modular spacings			