DATASHEET - P5-125/V/SVB/HI10

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



Part no.

P5-125/V/SVB/HI10 280915

General specifications	
Product name	Eaton Moeller® series P5 Main switch
Part no.	P5-125/V/SVB/HI10
EAN	4015082809157
Product Length/Depth	115 millimetre
Product height	150 millimetre
Product width	130 millimetre
Product weight	1.35 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 IEC 60947 UL 508 EN 60947-3 VDE CSA File No.: 223805 IEC/EN 60947 UL IEC/EN 60947-3 UL Category Control No.: NLRV, NLRV7 VDE 0660 CSA Class No.: 3211-05 CSA CSA-C22.2 No. 14-05 CE UL File No.: E36332 IEC/EN 60204 CSA-C22.2 No. 94
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 Version as emergency stop installation
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 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	Rear mounting
Mounting position	As required
Operating frequency	50 Operations/h
Overvoltage category	
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	Intermediate mounting 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 60068-2-30
Terminal capacities	
Terminal capacity	2 x 25 mm ² , flexible with ferrules to DIN 46228 2 x 35 mm ² , solid or stranded 1 x 13 x 3 mm Number of segments x width x thickness, copper strip 1 x 70 mm ² , flexible with ferrules to DIN 46228 3/0 AWG, solid or flexible conductor with ferrule 1 x 95 mm ² , solid or stranded 2 x 13 x 1.5 mm Number of segments x width x thickness, copper strip 2/0 AWG, flexible 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 (lu)	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)	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	1.6 x l# (with intermittent operation class 12, 40 % duty factor)

	2 x I# (with intermittent operation class 12, 25 % 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
Motor rating	
-	7.5 UD
Assigned motor power at 115/120 V, 60 Hz, 1-phase Assigned motor power at 115/120 V, 60 Hz, 3-phase	7.5 HP 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
Actuator	
Actuator color	Red
Actuator type	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
Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In)	
	3.1 W
Rated operational current for specified heat dissipation (In)	3.1 W 125 A 0 W
Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs	3.1 W 125 A
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Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

 Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03

 Version as main switch
 Yes

 Version as maintenance-/service switch
 Yes

Various asseries workinhImage is a series workinh is a series work work is a series			les
Varion as revealing witch No Number of switches 1 Number of switches 60 60 Rated operation voltage Ue AC 60 60 Rated operation voltage Ve AC 60 60 Soltab of woltage Ve AC 60 60 Soltab of woltage Ve AC 60 60 Number of auxiliary contacts as normally loade doratact 60 60 Number of auxiliary contacts as change-over contact 60 60 Notor of woltage Release Over contact 60 60 Notade of from mouting entree <td>Version as safety switch</td> <td></td> <td>No</td>	Version as safety switch		No
Number of switchesIIIMax rated operation voltage Ue ACV6060Rated operation voltage Ue ACV6060Rated operation voltage Ue ACV6060Rated operation routerent at AC 23, 400 VA1250Rated operation power at AC 23, 400 VK77Rated operation power at AC 23, 400 VK77Rated operation power at AC 23, 400 VK87Rated operation power at AC 23, 400 VK87Rated operation power at AC 23, 400 VK87Switching power at AC 23, 400 VK88Number of suikilay contract survent IqK88Number of suikilay contracts anomaly open contractK89Number of suikilay contracts shore-over contractK88Number of suikilay contract shore-over contractK88 <td>Version as emergency stop installation</td> <td></td> <td>Yes</td>	Version as emergency stop installation		Yes
Ax rated operation voltage UPAC V ® Bated operation voltage V S0 S00 Bated permanent current V C A Z5 Bated permanent current at AC-23, 400 V C A Z0 Bated operation power at AC-3, 400 V C KW Z0 Bated operation power at AC-3, 400 V C KW Z0 Bated operation power at AC-3, 400 V C KW Z0 Bated operation power at AC-3, 400 V C KW Z0 Solution power at AC-3, 400 V C KW Z0 Solution power at AC-3, 400 V C KW Z0 Solution power at AC-3, 400 V KW Z0 Z0 Solution power at AC-3, 400 V KW Z0 Z0 Solution power at AC-3, 400 V KW Z0 Z0 Solution power at AC-3, 400 V KW Z0 Z0 Solution power at AC-3, 400 V KW Z0 Z0 Solution concruter current 1Q KW Z0 Z0 Number o	Version as reversing switch		No
Rate operament current lu 60 - 600 Rate operament current lu 50 - 600 Rate operament current at AC-23, 400 V 60 - A0 Rate operament current at AC-23, 400 V 60 - A0 Rate operament current at AC-23, 400 V 60 - A0 Rate operament current at AC-23, 400 V 60 - A0 Rate operament current at AC-23, 400 V 60 - A0 Rate operament current at AC-23, 400 V 60 - A0 Switching power at AC-23, 400 V 60 - A0 Switching power at AC-23, 400 V 60 - A0 Switching power at AC-23, 400 V 60 - A0 Switching power at AC-23, 400 V 60 - A0 Switching power at AC-23, 400 V 60 - A0 Switching power at AC-23, 400 V 60 - A0 Switching power at AC-23, 400 V 60 - A0 Number of axiliary contacts as normally close contact 60 - A0 Number of axiliary contacts as normally close contact 60 - A0 Number of axiliary contacts as normally close contact 60 - A0 Number of axiliary contacts as normally close contact 60 - A0 Switch of from mouting 4-b0 60 - A0 Suisible for from mouting 4-b0 60 - A0 Suisible for from mouting 4-b0<	Number of switches		1
Rad parament current la P A P Rated parament current at AC-23, 400 V C A P Rated parament current at AC-23, 400 V C A P Rated parament current at AC-23, 400 V C RA P Rated parament current at AC-23, 400 V C RA P Rated parament current la C RA P	Max. rated operation voltage Ue AC	V	690
Add parament current at AC-23, 400 V A Bit ad parament current at AC-21, 400 V A Is Construction Rated operation power at AC-3, 400 V KW 3 3 Rated operation power at AC-23, 400 V KW 3 3 Rated operation power at AC-23, 400 V KW 4 3 Switching opwer at AC-23, 400 V KW 4 3 Nother of power at AC-23, 400 V KW 4 3 Switching opwer at AC-23, 400 V KW 4 3 Nother of power at AC-23, 400 V KW 4 3 Switching power at AC-23, 400 V KW 4 3 Nother of power at AC-23, 400 V KW 4 3 Nother of power at AC-23, 400 V KW 4 3 Nother of power at AC-23, 400 V KW 5 4 Nother of power at AC-23, 400 V KW 5 5 Nother of power at AC-23, 400 V KW 5 6 Nother of power at AC-23, 400 V KW 6 6 6 6 6 6 </td <td>Rated operating voltage</td> <td>V</td> <td>690 - 690</td>	Rated operating voltage	V	690 - 690
Rate genanent current at A.2.4, 400 V Image: Rate dependion power at AC-3, 400 V	Rated permanent current lu	А	125
Rate operation power at AC-3, 400 V FM 9 Rate do peration power at AC-33, 400 V KM 5 Switching power at AC-33, 400 V KM 6 Number of auxiliary contacts as normally open contact FM 6 Number of auxiliary contacts as change-over contact FM 6 6 Motor drive optional FM 6	Rated permanent current at AC-23, 400 V	Α	125
Rete short-time withstand current low KM 2 Reted operation power at AC-23, 400 V KM 4 Switching power at 400 V KM 5 Conditioned rated short-circuit current lq KM 3 Number of poles 0 3 Number of auxiliary contacts as normally open contact KM 0 Number of auxiliary contacts as normally open contact KM 0 Number of auxiliary contacts as normally open contact KM 0 Number of auxiliary contacts as normally open contact KM 0 Number of auxiliary contacts as normally open contact KM 0 Number of auxiliary contacts as normally open contact KM 0 Number of auxiliary contacts as normally open contact KM No Number of auxiliary contacts as normally open contact KM No Number of auxiliary contacts as normally open contact Mo No Number of auxiliary contacts as normally open contact Mo No Notact contact Mo No No Stable for fort nounuting entre Mo No	Rated permanent current at AC-21, 400 V	Α	125
Rete operation power at AC-23, 400 V Image: Application operation oper	Rated operation power at AC-3, 400 V	kW	37
Notiching power at 400 VIIIConditioned rated short-circuit current IqIIINumber of polesIIIINumber of auxiliary contacts as normally closed contactIIIINumber of auxiliary contacts as change-over contactIIIINumber of auxiliary contacts as change-over contactIIIIINumber of auxiliary contacts as change-over contactII <td>Rated short-time withstand current lcw</td> <td>kA</td> <td>2.5</td>	Rated short-time withstand current lcw	kA	2.5
Condition and short-circuit current lq Image: A problem in the circuit current lq Image: A problem in the current lq	Rated operation power at AC-23, 400 V	kW	45
Number of poles Imper of auxiliary contacts as normally closed contact Imper of auxiliary contacts as normally open contact Imperiod Imper of auxiliary contacts as normally open contact Imper of auxiliary contact Imper of auxiliary contact </td <td>Switching power at 400 V</td> <td>kW</td> <td>45</td>	Switching power at 400 V	kW	45
Number of auxiliary contacts as normally closed contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Normally contact contact I Normally contact contact I Normally contact contact contact contact contact I Normally contact con	Conditioned rated short-circuit current Iq	kA	30
Number of auxiliary contacts as normally open contact Image: Section 1 Number of auxiliary contacts as change-over contact Image: Section 1 Motor drive optional Image: Section 1 Motor drive optional Image: Section 1 Motor drive optional Image: Section 1 Voltage release optional Image: Section 1 Device construction Image: Section 1 Suitable for from nounting 4-hole Image: Section 1 Suitable for from nounting 6-hole Image: Section 1 Suitable for from nounting centre Image: Section 1 Suitable for from nounting centre Image: Section 1 Suitable for intermediate mounting Image: Section 1 Stripe intermediate mounting </td <td>Number of poles</td> <td></td> <td>3</td>	Number of poles		3
Number of auxiliary contacts as change-over contact Image: Contact as a change-over contact Motor drive optional No Motor drive integrated No Voltage release optional No Device construction Motor drive integrated Suitable for floor mounting Motor drive integrated Suitable for front mounting 4-hole Image: Construction Suitable for front mounting centre Motor drive integrated Suitable for front mounting centre Motor drive integrated Suitable for intermediate mounting Image: Construction Suitable for intermediate mounting Image: Construction Type of electrical connection of main circuit Image: Construction Type of electrical connection of main circuit Image: Construction Type of protection (IP), front side Image: Construction Type of protection (IP), front side Image: Construction of main circuit Device of protection (IP), front side Image: Construction of main circuit Device of protection (IP), front side Image: Construction of main circuit Device of protection (IP), front side Image: Construction of main circuit Device of protection (IP), front side Image: Construction of main circuit	Number of auxiliary contacts as normally closed contact		0
Motor drive optional No Motor drive integrated No Voltage release optional No Device construction No Suitable for floor mounting Built- in device fixed built- in technique Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for fixer mediate mounting Modee fixer Suitable for intermediate mounting Modee fixer Suitable for control element Modee fixer Type of centrel connection of main circuit Modee fixer Type of electrical connection of main circuit Modee fixer Begree of protection (IP), front side Modee fixer	Number of auxiliary contacts as normally open contact		1
Motor drive integrated Model	Number of auxiliary contacts as change-over contact		0
Votage release optionalNoDevice constructionBuilt-in device fixed built-in techniqueSuitable for floor mounting 4-holeNoSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationMoSuitable for intermediate mountingMoSuitable for intermediate mountingMo	Motor drive optional		No
Device constructionBilleDevice constructionBilleSuitable for floor mountingNoSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for first mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoSuitable for intermediate mounting<	Motor drive integrated		No
Suitable for floor mountingNoSuitable for floor mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoSuitable fo	Voltage release optional		No
Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting Mo Suit	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoSuitable for intermediate mountingNoColour control elementNoType of control elementRedInterlockableNo coupling rotary driveType of electrical connection of main circuitNoDegree of protection (IP), front sideSo	Suitable for floor mounting		No
Suitable for distribution board installation No Suitable for intermediate mounting Yes Colour control element Red Type of control element Door coupling rotary drive Interlockable Yes Type of electrical connection of main circuit Fame clamp Degree of protection (IP), front side Image: State	Suitable for front mounting 4-hole		No
Suitable for intermediate mountingMailYesColour control elementRedRedType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitYesDegree of protection (IP), front sideSolowInterlockableInterlockableInterlockableFrame clampInterlockableFrame clamp	Suitable for front mounting centre		No
Colour control elementRedType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitColour coupling notary driveDegree of protection (IP), front sideColour coupling notary drive	Suitable for distribution board installation		No
Type of control element Door coupling rotary drive Interlockable Yes Type of electrical connection of main circuit Yes Degree of protection (IP), front side Yes	Suitable for intermediate mounting		Yes
Interlockable Yes Type of electrical connection of main circuit Image: Section (IP), front side Degree of protection (IP), front side Image: Section (IP)	Colour control element		Red
Type of electrical connection of main circuit Frame clamp Degree of protection (IP), front side IP65	Type of control element		Door coupling rotary drive
Degree of protection (IP), front side	Interlockable		Yes
	Type of electrical connection of main circuit		Frame clamp
Degree of protection (NEMA) 12	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		12