DATASHEET - P1-25/EA/SVB

Main switch, P1, 25 A, flush mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



	Part no.	P1-25/EA/SVB 041097	
	EL Number (Norway)	1456105	
General specifications			
Product name			Eaton Moeller® series P1 Main switch
Part no.			P1-25/EA/SVB
EAN			4015080410973
Product Length/Depth			119 millimetre
Product height			65 millimetre
Product width			65 millimetre
Product weight			0.19 kilogram
Certifications			CSA File No.: 012528 CE UL 60947-4-1 VDE 0660 UL UL Category Control No.: NLRV UL File No.: E36332 CSA-C22.2 No. 94 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-3 IEC/EN 60204 CSA Class No.: 3211-05 CSA
Product Tradename			P1
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			300,000 Operations
Mounting method			Flush mounting
Mounting position			As required
Operating frequency			1200 Operations/h
Overvoltage category			III.
Pollution degree			3
Rated impulse withstand vo	oltage (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			Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting 4-hole
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	14 - 8 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm ² , solid or stranded 1 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 1 x (1.5 - 6) mm ² , solid or stranded 2 x (1 - 4) mm ² , flexible with ferrules to DIN 46228
Screw size	M4, Terminal screw
Tightening torque	14.1 lb-in, Screw terminals 1.6 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	190 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	150 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	170 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	150 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	19.6 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	15.2 A
Rated operational current (Ie) at AC-3, 500 V	12.1 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	8.8 A
Rated operational current (Ie) at AC-21, 440 V	25 A
Rated operational current (Ie) at AC-23A, 230 V	25 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	25 A
Rated operational current (Ie) at AC-23A, 500 V	17.4 A
Rated operational current (Ie) at AC-23A, 690 V	12.6 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	25 A
Rated operational current (Ie) at DC-23A, 24 V	25 A
Rated operational current (Ie) at DC-23A, 48 V	25 A
Rated operational current (Ie) at DC-23A, 60 V	25 A
Rated operational current (Ie) at DC-23A, 120 V	12 A
Rated operational power at AC-3, 380/400 V, 50 Hz	7.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	7.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	7.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	5.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	13 kW
Rated operational power at AC-23A, 500 V, 50 Hz	11 kW
Rated operational power at AC-23A, 690 V, 50 Hz	11 kW
Rated uninterrupted current (lu)	25 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	80 kA
Rated short-time withstand current (Icw)	640 A, Contacts, 1 second
Short-circuit current rating (basic rating)	0.64 kA 5 kA, SCCR (UL/CSA)
Short-circuit current rating (high fault)	110A, max. Fuse, SCCR (UL/CSA) 50 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	10 kA, SCCR (UL/CSA) 25 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.6 x l# (with intermittent operation class 12, 40 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor)
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

Assigned motor power at 115/120 V, 60 Hz, 1-phaseI HPAssigned motor power at 200/208 V, 60 Hz, 1-phase2 HPAssigned motor power at 200/208 V, 60 Hz, 1-phase3 HPAssigned motor power at 200/208 V, 60 Hz, 1-phase3 HPAssigned motor power at 200/208 V, 60 Hz, 1-phase5 HPAssigned motor power at 200/208 V, 60 Hz, 3-phase6 MPAssigned motor power at 200/208 V, 60 Hz, 3-phase6 MPAssigned motor power at 460/480 V, 60 Hz, 3-phase6 MPAssigned motor power at 575/600 V, 60 Hz, 3-phase6 MPContacts15 HPContacts1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA/Number of auxiliary contacts (change-over contacts)0Number of auxiliary contacts (normally closed contacts)0Number of auxiliary contacts (normally closed contacts)6 MeActuator colorMeActuator colorMeActuator colorMeActuator colorMeActuator power at 200/200 Switching operations detailMather of auxiliary contacts (normally open contacts)0Mather of auxiliary contacts (normally open contacts)MeMather of auxiliary contacts (normally open contacts)Me <t< th=""><th>Number of contacts in series at DC-23A, 120 V</th><th>3</th></t<>	Number of contacts in series at DC-23A, 120 V	3
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Action rating Image and conserver at 15120 V. 2019. Lyshue Image and conserver at 20200 V	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	240 A
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Assigned motor power at 2302/00 V, 80 Hz, 3-phase 5 HP Assigned motor power at 2302/00 V, 80 Hz, 3-phase 10 HP Assigned motor power at 257600 V, 80 Hz, 3-phase 10 HP Assigned motor power at 257600 V, 80 Hz, 3-phase 10 HP Control circuit reliability 1 halver per 100,00 swhething operations statistically determined, at 24 V D, 19 m3 Number of auxiliary contacts (change over contacts) 0 Number of auxiliary contacts (change over contacts) 0 Actuator orior 0 Actuator for 0 Design varification 8d Exclusion course dependent Pvid 0 W Head displation, current dependent Pvid 0 W Head displation, current dependent Pvid 0 W Head displation current dependent Pvid 0 W Head displation on diverse with statistication on the at dissipation (h) 25 A T022 Origon and the at dissipation (h) Mest the product standard's requirements. T022 Structic motif are statistication and the at dissipation (h) Mest the product standard's requirements. T022 Structic motif are statistic prime at the primate the primat the the primate the primate the prime at the pri	Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
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Assignation power at 373900 400 H2 3 phase Contacts Conta	Assigned motor power at 230/240 V, 60 Hz, 3-phase	5 HP
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / S	Switch disconnector (EC000216)
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Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)		
Electric engineering, automation, process control engineering / Low-voltage switch techno [AKF060013])	ology / Off-load s	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
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	25
Rated permanent current at AC-23, 400 V	А	25
Rated permanent current at AC-21, 400 V	А	25
Rated operation power at AC-3, 400 V	kW	7.5
Rated short-time withstand current Icw	kA	0.64
Rated operation power at AC-23, 400 V	kW	13
Switching power at 400 V	kW	13
Conditioned rated short-circuit current Iq	kA	80
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		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12