DATASHEET - P5-250/EA/SVB

Main switch, P5, 250 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.	P5-250/EA/SVB
	280936
EL Number	1417183
(Norway)	

General specifications

General specifications	
Product name	Eaton Moeller® series P5 Main switch
Part no.	P5-250/EA/SVB
EAN	4015082809362
Product Length/Depth	150 millimetre
Product height	150 millimetre
Product width	130 millimetre
Product weight	1.925 kilogram
Certifications	UL 508 CSA-C22.2 No. 14-05 CSA UL File No.: E36332 VDE 0660 IEC/EN 60947-3 CSA File No.: 223805 UL Category Control No.: NLRV, NLRV7 CSA-C22.2 No. 94 IEC/EN 60947 IEC/EN 60204 CE CSA Class No.: 3211-05 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 main switch Version as emergency stop installation
Fitted with:	Red rotary handle and yellow locking ring
Functions	Emergency switching off 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	80,000 Operations
Mounting method	Flush 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	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	1 x 185 mm ² , solid or stranded 2 x 20 x 3 mm Number of segments x width x thickness, copper strip 1 x 120 mm ² , flexible with ferrules to DIN 46228 2 x 70 mm ² , solid or stranded 1 x 20 x 5 mm Number of segments x width x thickness, copper strip 300 MCM (AVVG), flexible 2 x 50 mm ² , flexible with ferrules to DIN 46228 350 MCM (AWG), solid or flexible conductor with ferrule
Screw size	6 mm AF, Hexagon socket-head spanner, Terminal screw
Tightening torque	140 lb-in, Screw terminals 16 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	1600 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	1380 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	1250 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	400 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	126 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	105 A
Rated operational current (Ie) at AC-3, 500 V	118 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	45 A
Rated operational current (le) at AC-21, 440 V	250 A
Rated operational current (Ie) at AC-23A, 230 V	126 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	170 A
Rated operational current (Ie) at AC-23A, 500 V	156 A
Rated operational current (Ie) at AC-23A, 690 V	50 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	250 A
Rated operational current (le) at DC-23A, 24 V	250 A
Rated operational current (le) at DC-23A, 48 V	250 A
Rated operational current (Ie) at DC-23A, 60 V	250 A
Rated operational current (Ie) at DC-23A, 120 V	80 A
Rated operational power at AC-3, 380/400 V, 50 Hz	55 kW
Rated operational power at AC-3, 415 V, 50 Hz	55 kW
Rated operational power at AC-3, 500 V, 50 Hz	75 kW
Rated operational power at AC-3, 690 V, 50 Hz	40 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	37 kW
Rated operational power at AC-23A, 400 V, 50 Hz	90 kW
Rated operational power at AC-23A, 500 V, 50 Hz	110 kW
Rated operational power at AC-23A, 690 V, 50 Hz	45 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	250 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)	4,6 kA, Contacts, 1 second 4.6 kA
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 600A Class RK1, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	400 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, SCCR (UL/CSA)
Short-circuit protection rating	250 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.6 x I# (with intermittent operation class 12, 40 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor)
Number of contacts in series at DC-23A, 24 V	3

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Assigned meter power at 575/800 V, 60 Hz, 3phaso 75 HP Central circuit reliability 1 faiture per 100.000 swhtching operations statistically datermined, at 24 V DC, 10 mA/N Number of auxility contracts (homes) vocated contacts) 0 Actuator rol Actuator rol Actuator rol 8d Actuator role 0 Heat dissipation, capacity Pdass 0 Heat dissipation capacity Pdass 0 Read operational current for specified hast dissipation (n) 260 A Bud operational current for specified hast dissipation (n) 260 A Bud operational current dispation, concurrent dependent Pvid 8W Read operational current for specified hast dissipation (n) 260 A Bud Static hernal stability of enclosures 0 Bud Static hernal stability of enclosures Meets the product standard's requirements. Bud Static hernal stability of enclosures Meets the product standard's requirements. Bud Statichero finstatics of instatits to normal heat	Assigned motor power at 277 V, 60 Hz, 1-phase	30 HP
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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 sv [AKF060013])	vitch technology / Off-load	switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-
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	250
Rated permanent current at AC-23, 400 V	А	250
Rated permanent current at AC-21, 400 V	А	250
Rated operation power at AC-3, 400 V	kW	55
Rated short-time withstand current Icw	kA	4.6
Rated operation power at AC-23, 400 V	kW	90
Switching power at 400 V	kW	90
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		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Frame clamp
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12