Main switch, P5, 315 A, flush mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position \mathbf{r}



Part no. P5-315/EA/SVB

280950

EL Number 1417187

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series P5 Main switch
Part no.	P5-315/EA/SVB
EAN	4015082809508
Product Length/Depth	150 millimetre
Product height	150 millimetre
Product width	130 millimetre
Product weight	1.938 kilogram
Compliances	CE Marked
Certifications	UL 508 EN 60947-3 CSA Std. C22.2 No. 14-05 IEC 60947 VDE CSA Class No.: 3211-05 IEC/EN 60204 UL CE CSA-C22.2 No. 94 CSA-C22.2 No. 14-05 UL Category Control No.: NLRV, NLRV7 VDE 0660 IEC/EN 60947 CSA File No.: 223805 CSA IEC/EN 60947-3 UL File No.: E36332 UL CSA
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 emergency stop installation
reatures	Version as main switch Version as maintenance-/service switch
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	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	8000 V AC
Safe isolation	440 V AC, Between the contacts, According to EN 61140

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, cyclic, to IEC 60068-2-30
	Damp heat, constant, to IEC 60068-2-78
erminal capacities	
Terminal capacity	1 x 120 mm², flexible with ferrules to DIN 46228 300 MCM (AWG), flexible 2 x 20 x 3 mm Number of segments x width x thickness, copper strip 1 x 185 mm², solid or stranded 2 x 50 mm², flexible with ferrules to DIN 46228 2 x 70 mm², solid or stranded 1 x 20 x 5 mm Number of segments x width x thickness, copper strip 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
lectrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	1800 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	1650 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	1550 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	147 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	138 A
Rated operational current (le) at AC-3, 500 V	135 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	50 A
Rated operational current (le) at AC-21, 440 V	315 A
Rated operational current (Ie) at AC-23A, 230 V	182 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	205 A
Rated operational current (le) at AC-23A, 400 V, 413 V	184 A
Rated operational current (le) at AC-23A, 690 V	50 A
Rated operational current (le) at DC-1, load-break switches I/r = 1 ms	315 A
Rated operational current (Ie) at DC-23A, 24 V	315 A
Rated operational current (Ie) at DC-23A, 48 V	315 A
Rated operational current (Ie) at DC-23A, 60 V	315 A
Rated operational current (Ie) at DC-23A, 120 V	100 A
Rated operational power at AC-3, 380/400 V, 50 Hz	75 kW
Rated operational power at AC-3, 415 V, 50 Hz	75 kW
Rated operational power at AC-3, 500 V, 50 Hz	90 kW
Rated operational power at AC-3, 690 V, 50 Hz	45 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	55 kW
Rated operational power at AC-23A, 400 V, 50 Hz	110 kW
Rated operational power at AC-23A, 500 V, 50 Hz	132 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)	315 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
hort-circuit rating	
Rated conditional short-circuit current (Iq)	15 kA
Rated short-time withstand current (Icw)	5,8 kA, Contacts, 1 second 5.8 kA
Short-circuit current rating (basic rating)	800A Class RK1, max. Fuse, SCCR (UL/CSA) 10 kA, 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	315 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)	300 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)	2050 A
Voltage per contact pair in series	42 V
lotor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	20 HP
Assigned motor power at 115/120 V, 60 Hz, 3-phase	40 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	35 HP
Assigned motor power at 230/240 V, 60 Hz, 1- phase	75 HP
Assigned motor power at 277 V, 60 Hz, 1-phase	35 HP
Assigned motor power at 460/480 V, 60 Hz, 1-phase	100 HP
Assigned motor power at 400/400 V, 60 Hz, 3-phase Assigned motor power at 575/600 V, 60 Hz, 3-phase	100 HP
	100111
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	
	D. J
Actuator color	Red
Actuator type	Door coupling rotary drive
esign verification	
Equipment heat dissipation, current-dependent Pvid	12.7 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	12.7 W
Rated operational current for specified heat dissipation (In)	315 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 tecl [AKF060018])	hnology / Off-load sv	witch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03
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	Α	315
Rated permanent current at AC-23, 400 V	Α	315
Rated permanent current at AC-21, 400 V	Α	315
Rated operation power at AC-3, 400 V	kW	75
Rated short-time withstand current lcw	kA	5.8
Rated operation power at AC-23, 400 V	kW	110
Switching power at 400 V	kW	110
Conditioned rated short-circuit current Iq	kA	15
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
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	150
Width in number of modular spacings		