DATASHEET - P3-80/E/SVB



${\bf P3}$ Main switch, 80 A,Flush mounting, 3 pole, Form E, Red, Door coupling rotary drive

Part no. P3-80/E/SVB EP-400922

General specifications	
Product name	Eaton Moeller® series P3 Main switch
Part no.	P3-80/E/SVB
EAN	4015082963811
Product Length/Depth	130 millimetre
Product height	90 millimetre
Product width	90 millimetre
Product weight	0.42 kilogram
Certifications	CSA-C22.2 No. 94 UL File No.: E36332 IEC/EN 60204 UL Category Control No.: NLRV CSA IEC/EN 60947-3 UL CSA-C22.2 No. 60947-4-1-14 CSA Class No.: 3211-05 UL 60947-4-1 VDE 0660 CSA File No.: 012528 CE IEC/EN 60947
Product Tradename	P3
Product Type	Main switch
Product Sub Type	None
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
Number of poles	Three-pole
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	Flush mounting
Mounting position	As required
Operating frequency	1200 Operations/h
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (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	Front mounting 4-hole Branch circuits, suitable as motor disconnect, (UL/CSA)
Switching angle	90 °
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
Ferminal capacities	
Terminal capacity	2 x (2.5 - 10) mm², solid or stranded 2 x (1.5 - 6) mm², flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm², solid or stranded 1 x (1.5 - 25) mm², flexible with ferrules to DIN 46228 14 - 2 AWG, solid or flexible with ferrule
Screw size	M5, Terminal screw
Tightening torque	26.5 lb-in, Screw terminals 3 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	760 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	740 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	880 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	520 A
Rated operational current (le) at AC-3, 220 V, 230 V, 240 V	71 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	71 A
Rated operational current (Ie) at AC-3, 500 V	65 A
Rated operational current (le) at AC-3, 660 V, 690 V	23.8 A
Rated operational current (le) at AC-21, 440 V	80 A
Rated operational current (le) at AC-23A, 230 V	80 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	80 A
Rated operational current (le) at AC-23A, 500 V	80 A
Rated operational current (Ie) at AC-23A, 690 V	68 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	80 A
Rated operational current (Ie) at DC-23A, 24 V	50 A
Rated operational current (Ie) at DC-23A, 48 V	50 A
Rated operational current (Ie) at DC-23A, 60 V	50 A
Rated operational current (Ie) at DC-23A, 120 V	25 A
Rated operational power at AC-3, 380/400 V, 50 Hz	30 kW
Rated operational power at AC-3, 500 V, 50 Hz	45 kW
Rated operational power at AC-23A, 400 V, 50 Hz	30 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	80 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	80 kA (Supply side) 4 kA (Load side)
Rated short-time withstand current (Icw)	2 kA
Short-circuit current rating (basic rating)	150A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit protection rating	100 A gG/gL, Fuse, Contacts
Switching 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	1
Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 60 V	2
Number of contacts in series at DC-23A, 120 V	3
Switching capacity (main contacts, general use)	100 A, If used with neutral conductor IU = max. 90 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) P600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
Voltage per contact pair in series	60 V

Assigned motor power at 115/120 V, 60 Hz, 1-phase 19 HP Assigned motor power at 2002/20 V, 50 Hz, 1-phase 19 HP Assigned motor power at 2002/20 V, 50 Hz, 3-phase 19 HP Assigned motor power at 2002/20 V, 50 Hz, 3-phase 29 HP Assigned motor power at 2002/20 V, 50 Hz, 3-phase 29 HP Assigned motor power at 2002/20 V, 50 Hz, 3-phase 29 HP Assigned motor power at 2002/20 V, 50 Hz, 3-phase 29 HP Assigned motor power at 2002/20 V, 50 Hz, 3-phase 29 HP Assigned motor power at 2002/20 V, 50 Hz, 3-phase 20 Hz,	**	
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observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	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	

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])

[AKPU0UU18])		
Version as main switch	Yes	
Version as maintenance-/service switch	Yes	
Version as safety switch	No	
Version as emergency stop installation	Yes	

	No
	1
٧	690
٧	690 - 690
Α	80
Α	80
Α	80
kW	30
kA	2
kW	30
kW	55
kA	80
	3
	0
	0
	0
	No
	No
	No
	Built-in device fixed built-in technique
	No
	Yes
	No
	No
	No
	Red
	Door coupling rotary drive
	Yes
	Screw connection
	No
	IP65
	12
mm	90
mm	90
mm	130
	V A A A KW KA KW KA M M K M K M K M M M M M M M M