## DATASHEET - P3-80/I5/SVB-SW



## ${\bf P3}$ Main switch, 80 A, Surface mounting, 3 pole, Form I5/SVB, Black, Door coupling rotary drive

Part no. P3-80/I5/SVB-SW EP-400987

Terminal capacity	$2 \times (2.5 - 10) \text{ mm}^2$ , solid or stranded 14 - 2 AWG, solid or flexible with ferrule $2 \times (1.5 - 6) \text{ mm}^2$ , flexible with ferrules to DIN 46228
Ferminal capacities	
omnatic proofing	Damp heat, cyclic, to IEC 60068-2-30  Damp heat, constant, to IEC 60068-2-78
Ambient operating temperature (enclosed) - max  Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30
Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - max	-25 °C 40 °C
Ambient operating temperature - max	40 °C
Ambient operating temperature - min	-25 °C
	25.00
Climatic environmental conditions	JU J
Switching angle	90 °
Suitable for	Ground mounting
Sarety parameter (EN ISO 13849-1)  Shock resistance	B10d values as per EN ISO 13849-1, table C.1  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Safe isolation Safety parameter (EN ISO 13849-1)	440 V AC, Between the contacts, According to EN 61140
Rated impulse withstand voltage (Uimp)	6000 V AC
Pollution degree	3 coon v o c
Overvoltage category	 
Operating frequency	1200 Operations/h
Mounting position	As required
Mounting method	Surface mounting
Lifespan, mechanical	100,000 Operations
Degree of protection (front side)	IP65
Degree of protection	NEMA 12
Accessories	Auxiliary contact or neutral conductor fitted by user.
General information	
Number of poles	Three-pole
Locking facility	Lockable in the 0 (Off) position
	STOP function
Functions	Interlockable
Fitted with:	Version as maintenance-/service switch  Black rotary handle and locking ring
Features	Version as main switch
eatures & Functions	
Product Sub Type	None
Product Type	Main switch
Product Tradename	P3
	IEC/EN 60204 VDE 0660 CSA UL IEC/EN 60947-3
Certifications	IEC/EN 60947
Product weight	1.5 kilogram
Product width	200 millimetre
Product height	180 millimetre
Product Length/Depth	169 millimetre
EAN	4015082963576
Part no.	Eaton Moeller® series P3 Main switch P3-80/I5/SVB-SW
Product name	

	1 x (2.5 - 35) mm <sup>2</sup> , solid or stranded 1 x (1.5 - 25) mm <sup>2</sup> , flexible with ferrules to DIN 46228
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 (Ie) 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 (Ie) at AC-3, 660 V, 690 V	23.8 A
Rated operational current (Ie) at AC-21, 440 V	80 A
Rated operational current (Ie) at AC-23A, 230 V	80 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	80 A
Rated operational current (Ie) 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 l# (with intermittent operation class 12, 25 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % 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
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)	P600 (UL/CSA) A600 (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
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	5 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	10 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	20 HP

60 HP  1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)  0  0  0
mA) 0 0
mA) 0 0
0
0
Black
Door coupling rotary drive
7.5 W
0 W
7.5 W
80 A
0 W
Meets the product standard's requirements.
UV resistance only in connection with protective shield.
Does not apply, since the entire switchgear needs to be evaluated.
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Does not apply, since the entire switchgear needs to be evaluated.
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Is the panel builder's responsibility.
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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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 technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		No
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	80
Rated permanent current at AC-23, 400 V	Α	80

Rated permanent current at AC-21, 400 V	Α	80
Rated operation power at AC-3, 400 V	kW	30
Rated short-time withstand current lcw	kA	2
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	55
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		Complete device in housing
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Colour control element		Black
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12
Width	mm	200
Height	mm	180
Depth	mm	169
Width in number of modular spacings		