

P3 Main switch, 80 A,Rear mounting, 3 pole, Form V/SVB, Red, Door coupling rotary drive

Part no. P3-80/V/SVB

EP-400963

EL Number

1456133

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(NOIWay)	
General specifications	
Product name	Eaton Moeller® series P3 Main switch
Part no.	P3-80/V/SVB
EAN	4015082963187
Product Length/Depth	150 millimetre
Product height	114 millimetre
Product width	90 millimetre
Product weight	0.458 kilogram
Certifications	UL 60947-4-1 VDE 0660 UL File No.: E36332 CSA File No.: 012528 IEC/EN 60947-3 UL Category Control No.: NLRV UL CSA Class No.: 3211-05 CE CSA CSA CSA-C22.2 No. 94 CSA-C22.2 No. 60947-4-1-14 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	Interlockable Emergency switching off function
Locking facility	Lockable in the 0 (Off) position
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	Rear 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	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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
erminal capacities	
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 $1 \times (2.5 - 35) \text{ mm}^2$, solid or stranded $1 \times (1.5 - 25) \text{ mm}^2$, flexible with ferrules to DIN 46228
Screw size	M5, Terminal screw
Tightening torque	26.5 lb-in, Screw terminals
lectrical rating	3 Nm, Screw terminals
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 (le) at AC-3, 380 V, 400 V, 415 V	71 A
Rated operational current (le) 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-3, 000 V, 030 V	80 A
Rated operational current (le) at AC-21, 440 V	80 A
Rated operational current (le) at AC-23A, 230 V Rated operational current (le) at AC-23A, 400 V, 415 V	80 A
	80 A
Rated operational current (le) at AC-23A, 500 V	
Rated operational current (le) at AC-23A, 690 V	68 A
Rated operational current (le) at DC-1, load-break switches l/r = 1 ms	80 A
Rated operational current (le) at DC-23A, 24 V	50 A
Rated operational current (le) 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	1.3 x l# (with intermittent operation class 12, 60 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % 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 currer 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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	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])

[AKFU6UU18])	
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	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		Built-in device fixed built-in technique
Suitable for floor mounting		No
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		Red
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	90
Height	mm	114
Depth	mm	150
Width in number of modular spacings		