

${\bf P3}$ Main switch, 80 A,Rear mounting, 3 pole, Form Z, Black, Door coupling rotary drive

Part no. P3-80/Z

EP-400975

EL Number (Norway)

1456130

(Norway)	
General specifications	
Product name	Eaton Moeller® series P3 Main switch
Part no.	P3-80/Z
EAN	4015082963347
Product Length/Depth	150 millimetre
Product height	114 millimetre
Product width	90 millimetre
Product weight	0.36 kilogram
Certifications	CSA-C22.2 No. 94 CSA-C22.2 No. 60947-4-1-14 CSA File No.: 012528 CSA Class No.: 3211-05 IEC/EN 60947 IEC/EN 60947-3 IEC/EN 60204 UL 60947-4-1 UL File No.: E36332 UL Category Control No.: NLRV VDE 0660 CSA UL CE
Product Tradename	P3
Product Type	Main switch
Product Sub Type	None
Features & Functions	
Fitted with:	Black thumb grip and front plate
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	Intermediate mounting 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

Terminal capacity	2 x (1.5 - 6) mm², flexible with ferrules to DIN 46228 14 - 2 AWG, solid or flexible with ferrule 1 x (1.5 - 25) mm², flexible with ferrules to DIN 46228 2 x (2.5 - 10) mm², solid or stranded 1 x (2.5 - 35) mm², solid or stranded
Screw size	M5, Terminal screw
Tightening torque	3 Nm, Screw terminals 26.5 lb-in, 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 Iu 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) 1.3 x $I\#$ (with intermittent operation class 12, 60 % duty factor) 1.6 x $I\#$ (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)	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, 50 Hz, 3-phase Assigned motor power at 450/490 V, 60 Hz, 3-phase Assigned motor power at 450/490 V, 60 Hz, 3-phase On Horolatics Control circuit reliability Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally open centacts) Number of a	Assigned motor power at 230/240 V, 60 Hz, 1-phase	15 HP
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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])

[AKF060018])	3,,	,	
Version as main switch		No	
Version as maintenance-/service switch		No	
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		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		Yes
Colour control element		Black
Type of control element		Door coupling rotary drive
Interlockable		No
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		