Main switch, P3, 100 A, flush mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. P3-100/EA/SVB

074320

EL Number 1456132

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series P3 Main switch
Part no.	P3-100/EA/SVB
EAN	4015080743200
Product Length/Depth	130 millimetre
Product height	90 millimetre
Product width	90 millimetre
Product weight	0.426 kilogram
Certifications	IEC/EN 60204 VDE 0660 IEC/EN 60947-3 CSA Class No.: 3211-05 CSA CSA-C22.2 No. 94 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E36332 IEC/EN 60947 UL Category Control No.: NLRV CSA File No.: 012528 CE
Product Tradename	P3
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 Version as maintenance-/service switch Version as main switch
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	3
General information	
Accessories	Auxiliary contact or neutral conductor fitted by user.
Degree of protection	NEMA 1
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)
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 capacities	
Terminal capacity	$2 \times (1.5 - 6) \text{ mm}^2$, flexible with ferrules to DIN 46228 $2 \times (2.5 - 10) \text{ mm}^2$, solid or stranded $1 \times (1.5 - 25) \text{ mm}^2$, flexible with ferrules to DIN 46228 $14 - 2 \text{ AWG}$, solid or flexible with ferrule $1 \times (2.5 - 35) \text{ mm}^2$, solid or stranded
Screw size Tightening torque	M5, Terminal screw 3 Nm, Screw terminals
Electrical retire	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	100 A
Rated operational current (Ie) at AC-23A, 230 V	100 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	100 A
Rated operational current (Ie) at AC-23A, 500 V	96 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	100 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	37 kW
Rated operational power at AC-3, 415 V, 50 Hz	37 kW
Rated operational power at AC-3, 500 V, 50 Hz	45 kW
Rated operational power at AC-3, 690 V, 50 Hz	37 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	30 kW
Rated operational power at AC-23A, 400 V, 50 Hz	55 kW
Rated operational power at AC-23A, 500 V, 50 Hz	55 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational voltage (Ue) at AC - max	690 V
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Rated uninterrupted current (Iu)	100 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating Rated conditional short-circuit current (Iq)	4 kA (Load side)
naces continuonal short enealt current (14)	80 kA (Supply side)
Rated short-time withstand current (Icw)	2 kA
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 150A, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	100 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor) 2 x l# (with intermittent operation class 12, 25 % 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

Assigned mitor proces at 115/200 U, 18 bt 1, replaces Assigned mitor proces at 2002 WU, 18 bt 1, replaces Assigned motor proces at 2002 WU, 18 bt 1, replaces Assigned motor power at 2002 WU, 18 bt 1, replaces A	Switching capacity (main contacts, general use)	100 A, If used with neutral conductor IU = max. 90 A, Rated uninterrupted current
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Assigned motor power at 119/120 x, 59/12, 1-phase Assigned motor power at 200/200 x, 50/12, 5-phase 20 HP Assigned motor power at 200/200 x, 50/12, 5-phase Botor could be assigned assigned at 200/200 x, 50/12, 5-phase Botor could be assigned assigned at 200/200 x, 50/12, 5-phase Botor could be assigned	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
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Assigned motor power at 230,249 V, 50 Hz, 1-phase Assigned motor power at 230,249 V, 50 Hz, 3-phase 25 HP Assigned motor power at 230,240 V, 50 Hz, 3-phase 27 HP Assigned motor power at 230,240 V, 50 Hz, 3-phase 27 HP Control circuit reliability Control circuit reliability I failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA Number of auxiliary contracts (change-over contacts) Number of auxiliary contracts (change-o	Assigned motor power at 200/208 V, 60 Hz, 1-phase	10 HP
Assigned motor power at 280/240 V, 80 Hz, 3-phase Assigned motor power at 280/240 V, 80 Hz, 3-phase Assigned motor power at 255/800 V, 60 Hz, 3-phase 75 HP Contacts Control circuit reliability Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (phange-over contacts) Number of auxiliary contacts (p	Assigned motor power at 200/208 V, 60 Hz, 3-phase	20 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 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as maintenance /service switch Version as sentry switch Number of switches N	[AKF060013])	377		.,,
Version as safety switch Version as somergency sop installation Version as roversing switch No	Version as main switch			Yes
Version as emergency stop installation Yes Version as rowering switch No Number of switches 1 Mumber of switches V 690 Rated operation voltage Ue AC V 690 - 690 Rated operation voltage Ue AC A 100 Rated operation power at AC-23, 400 V A 100 Rated operation power at AC-24, 400 V KW 5 Rated operation power at AC-25, 400 V kW 5 Switching power at 400 V kW 5 Conditioned rated short-circuit current Iq kA 80 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 0 No Motor drive optional No No Motor drive optional No	Version as maintenance-/service switch			Yes
Number of switches Max. rated operation voltage U AC W 690 - 690 Rated operation voltage U AC Rated permanent current tu Rated permanent current tu Rated permanent current tu Rated permanent current tu Rated permanent current tu A C-23, 400 V Rated operation power at AC-23, 400 V	Version as safety switch			No
Number of switches 1 Max. rated operation voltage Ue AC V 690 Rated operation voltage V 690 690 Rated operation voltage V 690 690 Rated operation voltage A 100 Rated permanent current at AC-23, 400 V A 100 Rated short-time withstand current teV IAV 37 Rated short-time withstand current LeV IAV 55 Rated short-time withstand current LeV IAV 55 Switching power at AD-23, 400 V IAV 50 Switching power at AD-23, 400 V IA	Version as emergency stop installation			Yes
Max. rated operating voltage V 690 Rated operating voltage V 690 - 690 Rated operating voltage A 100 Rated permanent current at AC-23, 400 V A 100 Rated operation power at AC-3, 400 V A 100 Rated operation power at AC-3, 400 V kW 37 Rated short-time withstand current low kA 2 Rated operation power at AC-23, 400 V kW 55 Rated operation power at AC-23, 400 V kW 55 Switching power at 400 V kW 55 Conditioned rated short-circuit current lq kW 55 Number of poloses 3 3 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of polinali No No Motor drive integrated No No Voltage release optional No No Dovice construction No No Suitable for front mounting 4-tole No <	Version as reversing switch			No
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Rated permanent current at AC-23, 400 V A 100 Rated permanent current at AC-21, 400 V kW 37 Rated operation power at AC-3, 400 V kW 55 Rated operation power at AC-23, 400 V kW 55 Rated operation power at AC-23, 400 V kW 55 Switching power at 400 V kW 55 Conditioned rated short-circuit current Iq kA 80 Number of poles 3 3 Number of pulse 3 3 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 No Motor drive optional No No Motor drive optional No No Motor drive integrated No No Voltage release optional No No Suitable for front mounting 4-hole Wes Suitable for front mounting 4-hole No Suitable for front mounting entre No No Suitable for front mounting entre No No Suitable for in	Rated operating voltage		V	690 - 690
Rated permanent current at AC-21, 400 V	Rated permanent current lu		Α	100
Rated operation power at AC-3, 400 V Rated short-time withstand current Icw Rated operation power at AC-23, 400 V Row 55 Switching power at 400 V Conditioned rated short-circuit current Iq Row 65 Number of poles Rumber of poles Rumber of auxiliary contacts as normally closed contact Rumber of auxiliary contacts as normally open contact Rumber of auxiliary contacts as normally open contact Rumber of auxiliary contacts as an experiment of auxiliary contacts as change-over contact Rumber of numiting opinitiary contacts as change-over contact Rumber of row integrated Rotor drive integrated Rotor front mounting Rumber of auxiliary contacts as change-over contact Rotor drive integrated Rotor drive integrated Rotor drive integrated Rotor front mounting Rotor front mounting dentre Rotor front mounting dentr	Rated permanent current at AC-23, 400 V		Α	100
Rated short-time withstand current lew Rated operation power at AC-23, 400 V RW 55 Switching power at 400 V Conditioned rated short-circuit current Iq RW 80 Number of poles RW 90 Number of auxiliary contacts as normally closed contact RW 90 Number of auxiliary contacts as normally open contact RW 90 Number of auxiliary contacts as normally open contact RW 90 Motor drive pitional RW 90 No RW 90 No RW 90 No RW 90 RW 9	Rated permanent current at AC-21, 400 V		Α	100
Rated operation power at AC-23, 400 V Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side KW 55 KW 55 KW 55 KW 50 KW 55 KW 50 CO CO CO CO CO CO CO CO CO C	Rated operation power at AC-3, 400 V		kW	37
Switching power at 400 V Conditioned rated short-circuit current Iq kA 80 Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Rated short-time withstand current lcw		kA	2
Conditioned rated short-circuit current Iq kA 80 Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Rated operation power at AC-23, 400 V		kW	55
Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No Motor drive optional No Motor drive integrated No Voltage release optional No Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side 3 3 0 0 0 0 0 0 0 0 0 0 0	Switching power at 400 V		kW	55
Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No Motor drive optional No Notor drive integrated No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation No Suitable for distribution board installation No Colour control element Type of control element Red Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side O O O O O O O O O O O O O	Conditioned rated short-circuit current Iq		kA	80
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated Notor drive integrated integrat	Number of poles			3
Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No No No Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No No Screw connection	Number of auxiliary contacts as normally closed contact			0
Motor drive optional Motor drive integrated No 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 Colour control element Red Type of control element Door coupling rotary drive Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side	Number of auxiliary contacts as normally open contact			0
Motor drive integrated Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No No Screw connection Interlockable	Number of auxiliary contacts as change-over contact			0
Voltage release optional Device construction Built-in device fixed built-in technique Suitable for floor mounting Suitable for front mounting 4-hole Yes Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No Screw connection No Screw connection Interlockable IP65	Motor drive optional			No
Device construction Built-in device fixed built-in technique No Suitable for floor mounting Suitable for front mounting 4-hole Yes Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Red Type of control element Door coupling rotary drive Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Built-in device fixed built-in technique No Yes Screw connection Built-in device fixed built-in technique No Yes Interlockable Pes Screw connection	Motor drive integrated			No
Suitable for floor mounting Suitable for front mounting 4-hole 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 Type of electrical connection of main circuit Degree of protection (IP), front side No Interlockable IP65	Voltage release optional			No
Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Yes No No Red Door coupling rotary drive Yes Screw connection IP65	Device construction			Built-in device fixed built-in technique
Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No No Red Door coupling rotary drive Yes Type of electrical connection of main circuit Degree of protection (IP), front side IP65	Suitable for floor mounting			No
Suitable for distribution board installation Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No Red Pes Yes Type of electrical connection of main circuit Degree of protection (IP), front side IP65	Suitable for front mounting 4-hole			Yes
Suitable for intermediate mounting No Colour control element Red Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No Red Door coupling rotary drive Yes Screw connection IP65	Suitable for front mounting centre			No
Colour control element Type of control element Door coupling rotary drive Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Red Screw conpling rotary drive Yes ITYPE OF Electrical connection IP65	Suitable for distribution board installation			No
Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Door coupling rotary drive Yes Screw connection IP65	Suitable for intermediate mounting			No
Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Colour control element			Red
Type of electrical connection of main circuit Degree of protection (IP), front side Screw connection IP65	Type of control element			Door coupling rotary drive
Degree of protection (IP), front side	Interlockable			Yes
• 1 1 1	Type of electrical connection of main circuit			Screw connection
Degree of protection (NEMA)	Degree of protection (IP), front side			IP65
	Degree of protection (NEMA)			1