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



Part no.

P3-100/SE3/SVB/N 197372

General specifications		
Product name	Eat	ton Moeller® series P3 Main switch
Part no.	P3	-100/SE3/SVB/N
EAN	401	15081938674
Product Length/Depth	250	0 millimetre
Product height	155	5 millimetre
Product width	200	0 millimetre
Product weight	2.8	15 kilogram
Certifications	VD IEC	C/EN 60947-3 IE 0660 C/EN 60204 C/EN 60947
Product Tradename	P3	
Product Type	Ma	ain switch
Product Sub Type	No	one
Catalog Notes		steel enclosure ted Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions		
Features	Ve Ve	rsion as emergency stop installation rsion as main switch rsion as maintenance-/service switch rsion as safety switch
Fitted with:	Re	d rotary handle and yellow locking ring
Functions		erlockable nergency switching off function
Locking facility	Lo	ckable in the 0 (Off) position
Number of poles	For	ur-pole
General information		
Accessories	Au	xiliary contact fitted by user.
Degree of protection	NE	MA 12
Degree of protection (front side)	IPE	35
Lifespan, mechanical	100	0,000 Operations
Mounting method	Su	rface mounting
Mounting position	As	required
Operating frequency	120	00 Operations/h
Overvoltage category	111	
Pollution degree	3	
Rated impulse withstand voltage (Uimp)	600	00 V AC
Safe isolation	440	0 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)	B1	Od 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	Gro	ound mounting
Switching angle	90	0
Climatic environmental conditions		
Ambient operating temperature (enclosed) - min	-25	5°C
Ambient operating temperature (enclosed) - max	40	°C
Terminal capacities		
Terminal capacity	2 x 2 x	: (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 : (1.5 - 6) mm ² , flexible with ferrules to DIN 46228 : (2.5 - 10) mm ² , solid or stranded : (2.5 - 35) mm ² , solid or stranded

Tightening torque	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-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 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 DC-1, load-break switches I/r = 1 ms	100 A
Rated operational current (Ie) at DC-23A, 24 V	50 A
Number of contacts in series at DC-23A, 24 V	1
Rated operational current (Ie) at DC-23A, 48 V	50 A
Number of contacts in series at DC-23A, 48 V	2
Rated operational current (Ie) at DC-23A, 60 V	50 A
Number of contacts in series at DC-23A, 60 V	2
Rated operational current (Ie) at DC-23A, 120 V	25 A
Number of contacts in series at DC-23A, 120 V	3
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 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, 690 V, 50 Hz	37 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (lu)	100 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Voltage per contact pair in series	60 V
Short-circuit rating	
Rated conditional short-circuit current (Iq)	4 kA (Load side) 80 kA (Supply side)
Rated short-time withstand current (Icw)	2 kA
Short-circuit protection rating	100 A gG/gL, Fuse, Contacts
Switching capacity	
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
Load rating	1.3 x I# (with intermittent operation class 12, 60 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor)
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10
Number of auxiliary contacts (change-over contacts)	mA) 0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator	
Actuator color	Red
Actuator type	Door coupling rotary drive
Design verification	
10.2.2 Corrosion resistance	Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
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	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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])

Varian as mains and witch Image: Section of Sectin of Section of Sect			
Version as afety switchImage: Section of	Version as main switch		Yes
Version as reversing switch Image: Section of Se	Version as maintenance-/service switch		Yes
Version as reversing switch Image: space spa	Version as safety switch		Yes
Number of switches Image: space	Version as emergency stop installation		Yes
Max rated operation voltage Ue AC Feed 56 Rate doperation voltage Ue AC V 60 60 Rated operating voltage V 00	Version as reversing switch		No
Rated per dans V 80-690 Rated per manent current lu A 10 Rated per manent current at AC-23, 400 V A 10 Rated operation power at AC-3, 400 V A 10 Rated operation power at AC-3, 400 V KW 37 Rated operation power at AC-3, 400 V KW 5 Switching power at AC-3, 400 V KW 6 Switching power at AC-3, 400 V KW 5 Switching power at AC-3, 400 V KW 5 Switching power at AC-3, 400 V KW 6 Switching power at AC-3, 400 V Switching AC 0 Number of poles No 0 0 Number of auxiliary contacts as normally closed contact No	Number of switches		1
Rated permanent current lu A 0 Rated permanent current at AC-23, 400 V A 0 Rated operation power at AC-3, 400 V KW 3 Rated operation power at AC-3, 400 V KW 3 Rated operation power at AC-3, 400 V KW 3 Switching power at AC-3, 400 V KW 5 Rated operation power at AC-3, 400 V KW 5 Switching power at AC-3, 400 V KW 6 Switching power at AC-3, 400 V KW 6 Number of poles KW 6 6 Number of auxiliary contacts as normally closed contact KW 6 6 Number of auxiliary contacts as change-over contact KW 6 6 6 Notact divise integrated KW 6 6 6 6 6 6 6 6	Max. rated operation voltage Ue AC	V	690
Add permanent current at AC-23,400 V A 0 Rated permanent current at AC-21,400 V A 00 Rated operation power at AC-3,400 V FW 37 Rated operation power at AC-3,400 V FW 3 Rated operation power at AC-3,400 V FW 5 Rated operation power at AC-3,400 V FW 5 Switching power at 400 V FW 5 Conditioned rated short-circuit current lq FW 6 Number of pales FW 6 Number of auxiliary contacts as normally closed contact FW 6 Number of auxiliary contacts as change-over contact FW 6 Number of auxiliary contacts as change-over contact FW 6 Number of auxiliary contacts as change-over contact FW FW Notar drive optional FW FW 6 Notar drive optional FW FW FW Notar drive optional FW FW FW Notar drive optional FW FW FW Notar drive optional FW FW <td>Rated operating voltage</td> <td>V</td> <td>690 - 690</td>	Rated operating voltage	V	690 - 690
Add perminent current aA C-21,400 V A 0 Rated operation power at AC-3,400 V KW 3 Rated operation power at AC-3,400 V KM 5 Rated operation power at AC-23,400 V KW 5 Switching power at AO-23,400 V KW 5 Switching power at AO-23,400 V KM 5 Switching power at AO-23,400 V KW 5 Switching power at AO-23,400 V KW 5 Switching power at AO-23,400 V KM 5 Switching power at AO-23,400 V KW 5 Switching power at AO-23,400 V KW 5 Switching power at AO-23,400 V KM 6 Switching power at AO-23,400 V KW 6 Switching power at AO-23,400 V KW 6 Switching power at AO-23,400 V KM 6 Number of auxiliary contexts an omally closed context A 6 Number of auxiliary contexts as change-over contaxt YM 6 6 Number of auxiliary contexts as change-over contaxt YM No 7 Not contarter set as change-over contaxt YM No No </td <td>Rated permanent current lu</td> <td>А</td> <td>100</td>	Rated permanent current lu	А	100
Rated operation power at AC-3, 400 V KW 3 Rated short-time withstand current low KW 5 Switching power at AC-23, 400 V KW 5 Switching power at 400 V KW 5 Conditioned rated short-circuit current lq KM 6 Number of poles A 4 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Number of auxiliary contacts as normally closed contact F 6 Nutor tive intermed F	Rated permanent current at AC-23, 400 V	А	100
Rated short-time withstand current low KA 2 Rated operation power at AC-23, 400 V KW 5 Switching power at 400 V KW 5 Conditioned rated short-circuit current lq KM 8 Number of poles A 8 Number of auxiliary contacts as normally closed contact M 9 Number of auxiliary contacts as normally closed contact M 0 Number of auxiliary contacts as change-over contact M 0 Number of auxiliary contacts as change-over contact M M Number of auxiliary contacts as change-over contact M M Notor drive optional M M M Notor drive integrated M M M Valdage release optional M M M Stable for from mounting 4-hole M M M	Rated permanent current at AC-21, 400 V	А	100
Rade operation power at AC-23,400 V KW Si Switching power at 400 V KW Si Conditioned rated short-circuit current lq KA 80 Number of poles 4 4 Number of auxiliary contacts as normally closed contact 6 6 Number of auxiliary contacts as change-over contact 0 6 Motor drive optional KM 6 6 Motor drive optional KM 6 6 Voltage release optional KM 6 6 Suitable for from mounting 4-hole KM 6 6 Suitable for from mounting entre KM 6 6 6 Suitable for from mounting entre KM 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 <td>Rated operation power at AC-3, 400 V</td> <td>kW</td> <td>37</td>	Rated operation power at AC-3, 400 V	kW	37
Switching power at 400 V KW 5 Conditioned rated short-circuit current lq KA 80 Number of poles 4 4 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact More of auxiliary contacts as change-over contacts More of auxiliary contacts	Rated short-time withstand current Icw	kA	2
Conditioned rated short-circuit current Iq Image: A B B B B B B B B B B B B B B B B B B	Rated operation power at AC-23, 400 V	kW	55
Number of poles 4 Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact 0 Number of auxiliary contacts as change-over contact 0 Motor drive optional 0 Notor drive integrated No Voltage release optional 0 Suitable for floor mounting 0 Suitable for front mounting 4-hole 0 Suitable for front mounting centre 0 Suitable for floor installation 0 Suitable for floor installation 0 Suitable for floor mounting centre 0 Suitable fo	Switching power at 400 V	kW	55
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 Notor drive optional 0 Motor drive integrated 0 Voltage release optional 0 Device construction 0 Suitable for floor mounting 4-hole 0 Suitable for front mounting centre 0 Suitable for floor installation 0 Suitable for floor installation 0	Conditioned rated short-circuit current Iq	kA	80
Number of auxiliary contacts as normally open contact Image: Content of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Motor drive optional Image: Content of auxiliary contacts as change-over contact Motor drive optional Image: Content of auxiliary contacts as change-over contact Motor drive optional Image: Content of auxiliary contacts as change-over contact Notor drive integrated Image: Content of auxiliary contacts as change-over contact Voltage release optional Image: Content of auxiliary contacts as change-over contact Device construction Image: Content of auxiliary contacts Suitable for floor mounting 4-hole Image: Content of auxiliary contacts Suitable for front mounting centre Image: Content of auxiliary contacts Suitable for floor instillation Image: Content of auxiliary contacts	Number of poles		4
Number of auxiliary contacts as change-over contactImage: second sec	Number of auxiliary contacts as normally closed contact		0
More drive optional No Motor drive integrated No Voltage release optional Image: Complete device in housing Device construction Image: Complete device in housing Suitable for floor mounting 4-hole Image: Complete device in housing Suitable for front mounting centre Image: Complete device in housing Suitable for floor mounting centre Image: Complete device in housing Suitable for floor mounting centre Image: Complete device in housing Suitable for floor mounting centre Image: Complete device in housing Suitable for floor mounting centre Image: Complete device in housing Suitable for floor mounting centre Image: Complete device in housing Suitable for floor mounting centre Image: Complete device in housing Suitable for distribution board installation Image: Complete device in housing Suitable for distribution board installation Image: Complete device in housing	Number of auxiliary contacts as normally open contact		0
Motor drive integratedImage: Section of the section of t	Number of auxiliary contacts as change-over contact		0
Voltage release optional Mo Device construction Mo Suitable for floor mounting 4-hole Mo Suitable for front mounting centre Mo Suitable for distribution board installation Mo	Motor drive optional		No
Device construction Complete device in housing Suitable for floor mounting 4-hole Mo Suitable for front mounting centre Mo Suitable for distribution board installation Mo	Motor drive integrated		No
Suitable for floor mounting And Comparison Suitable for front mounting 4-hole Mo Suitable for front mounting centre Mo Suitable for distribution board installation Mo	Voltage release optional		No
Suitable for front mounting 4-hole Mo Suitable for front mounting centre Mo Suitable for distribution board installation Mo	Device construction		Complete device in housing
Suitable for front mounting centre No Suitable for distribution board installation No	Suitable for floor mounting		Yes
Suitable for distribution board installation No	Suitable for front mounting 4-hole		No
	Suitable for front mounting centre		No
Suitable for intermediate mounting 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
Degree of protection (IP), front side	IP65
Degree of protection (NEMA)	12