Main switch, P3, 63 A, surface mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position, in steel enclosure



Part no. P3-63/SE3/SVB 197362

General specifications	
Product name	Eaton Moeller® series P3 Main switch
Part no.	P3-63/SE3/SVB
EAN	4015081938681
Product Length/Depth	250 millimetre
Product height	155 millimetre
Product width	200 millimetre
Product weight	2.66 kilogram
Certifications	IEC/EN 60947-3 IEC/EN 60947 VDE 0660 IEC/EN 60204
Product Tradename	P3
Product Type	Main switch
Product Sub Type	None
Catalog Notes	in steel enclosure Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Features	Version as emergency stop installation Version as main switch Version as safety switch Version as maintenance-/service 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	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	Surface 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	Ground mounting
Switching angle	90 °
Climatic environmental conditions	
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Terminal capacities	
Terminal capacity	1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228 2 x (2.5 - 10) mm ² , solid or stranded 1 x (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)	640 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	600 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	590 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	340 A
Rated operational current (le) at AC-21, 440 V	63 A
Rated operational current (Ie) at AC-23A, 230 V	63 A
Rated operational current (le) at AC-23A, 400 V, 415 V	63 A
Rated operational current (Ie) at AC-23A, 500 V	63 A
Rated operational current (Ie) at AC-23A, 690 V	63 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	51 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	55 A
Rated operational current (Ie) at AC-3, 500 V	44 A
Rated operational current (le) at AC-3, 660 V, 690 V	22.1 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	63 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 (le) 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	18.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	30 kW
Rated operational power at AC-23A, 500 V, 50 Hz	45 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	30 kW
Rated operational power at AC-3, 415 V, 50 Hz	30 kW
Rated operational power at AC-3, 690 V, 50 Hz	30 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	63 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)
	100 kA (Supply side)
Rated short-time withstand current (Icw)	1.26 kA
Short-circuit protection rating	80 A gG/gL, Fuse, Contacts
Switching capacity	
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	800 A
Load rating	1.3 x l# (with intermittent operation class 12, 60 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor)
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of auxiliary contacts (change-over contacts)	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])

Version as maintonance-/service switch Version as safety switch Version as safety switch Version as a reversing switch Number of switches Rated operation voltage Ue AC Rated operation voltage Ue AC Rated permanent current Iu Rated permanent current at AC-23, 400 V Rated permanent current at AC-24, 400 V Rated permanent current at AC-24, 400 V Rated permanent current at AC-24, 400 V Rated operation power at AC-34, 400 V Roundinored rated short-circuit current Iq Rated operation power at AC-34, 400 V Roundinored rated short-circuit current Iq Rated operation power at AC-34, 400 V Rounder of poles Rumber of auxiliary contacts as normally closed contact Rumber of auxiliary contacts as normally open contact Rumber of fortin conting as optional Rutor drive pitional Rutor drive pitional Rutor drive integrated Voltage releases optional Rutor drive integrated Voltage releas	7			
Version as safety switch Version as emergency stop installation Version as reversing switch No Number of switches Nax. rated operation voltage Ue AC Nax. rated operating voltage Nated operation power at AC-23,400 V Nate	Version as main switch			Yes
Version as mergency stop installation Version as reversing switch Number of switches Max. rated operation voltage Ue AC Rated operation voltage Ue AC Rated operation voltage Rated permanent current at AC-23, 400 V Rated permanent current at AC-23, 400 V Rated permanent current at AC-23, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-23, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated short-time vithstand current lcw Rated operation power at AC-23, 400 V Rated operation power at A	Version as maintenance-/service switch			Yes
Version as reversing switch Number of switches Nat. rated operation voltage Ue AC No. 890 - 690 Rated operation voltage Ue AC No. 890 - 690 Rated permanent current unt No. 83 Rated permanent current at AC-23, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lew Rated operation power at AC-23, 400 V Rated short-time withstand current lew Rated operation power at AC-23, 400 V Rated short-time withstand current lew Rated operation power at AC-23, 400 V Rated short-time of the short-time withstand current lew Rated operation power at AC-23, 400 V Rated short-time operation power at AC-23, 400 V Rated operation power at 400 V Routility contacts as normally closed contact Routility contacts as normally closed contact Routility contacts as normally open contact Routility contacts as change-over contact Routility c	Version as safety switch			Yes
Number of switches 1 Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690-690 Rated permanent current Iu A 63 Rated permanent current at AC-23, 400 V A 63 Rated operation power at AC-3, 400 V RW 30 Rated short-time withstand current Icw KM 36 Rated operation power at AC-23, 400 V KW 30 Switching power at 400 V KW 30 Conditioned rated short-circuit current Iq KM 100 Number of poles 3 3 Number of auxiliary contacts as normally closed contact C 0 Number of auxiliary contacts as normally open contact 0 No Motor drive optional No No Motor drive optional No No Device construction No Complete device in housing Suitable for from mounting 4-hole No Complete device in housing Suitable for front mounting centre No No Suitable for floor distribution board installa	Version as emergency stop installation			Yes
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Switching power at 400 V Conditioned rated short-circuit current Iq kA 100 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 Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated No Voltage release optional Device construction Suitable for front mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation KW 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rated short-time withstand current lcw	I	kA	1.26
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Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for fort mounting centre Suitable for distribution board installation O O O O O O O O O O O O O	Number of auxiliary contacts as normally closed contact			0
Motor drive optional Motor drive integrated No Voltage release optional No Device construction Complete device in housing Suitable for floor mounting Suitable for front mounting 4-hole Suitable for fort mounting centre No Suitable for distribution board installation No	Number of auxiliary contacts as normally open contact			0
Motor drive integrated No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for fornt mounting centre No Suitable for distribution board installation No No No No No No No No No	Number of auxiliary contacts as change-over contact			0
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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 Complete device in housing Yes No	Motor drive integrated			No
Suitable for floor mounting Yes Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation No	Voltage release optional			No
Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation No	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