Main switch, P1, 40 A, surface mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position, in steel enclosure $\frac{1}{2}$



Part no. P1-40/SE1/SVB-SW

199949

EL Number 1403753

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series P1 Main switch
Part no.	P1-40/SE1/SVB-SW
EAN	4015082953652
Product Length/Depth	200 millimetre
Product height	135 millimetre
Product width	150 millimetre
Product weight	1.65 kilogram
Compliances	CE UKCA
Certifications	IEC/EN 60947 IEC/EN 60947-3 IEC/EN 60204
Product Tradename	P1
Product Type	Main switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Enclosure material	Steel
Features	Version as main switch Version as maintenance-/service switch
Fitted with:	Black rotary handle and locking ring Auxiliary contact
Functions	STOP function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	3
General information	
Degree of protection	IP65
Degree of protection (front side)	IP65
Lifespan, mechanical	300,000 Operations
Mounting method	Surface mounting
Mounting position	As required
Operating frequency	50 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
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Switching angle	90 °
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °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
Terminal capacities	Damp heat, cyclic, to IEC 60068-2-30
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	$2 \times (1 - 4)$ mm², flexible with ferrules to DIN 46228 1 x 10 mm² with fork terminal 2×10 mm² with fork terminal
Screw size	M4, Terminal screw
Tightening torque	1.6 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	290 kA
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	130 kA
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	30 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	30 A
Rated operational current (le) at AC-3, 660 V, 690 V	17 A
Rated operational current (Ie) at AC-21, 440 V	40 A
Rated operational current (Ie) at AC-23A, 230 V	40 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	40 A
Rated operational current (Ie) at AC-23A, 690 V	20 A
Rated operational power at AC-3, 380/400 V, 50 Hz	15 kW
Rated operational power at AC-3, 415 V, 50 Hz	15 kW
Rated operational power at AC-3, 690 V, 50 Hz	15 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	11 kW
Rated operational power at AC-23A, 400 V, 50 Hz	22 kW
Rated operational power at AC-23A, 690 V, 50 Hz	18.5 kW
Rated operational voltage (Ue) at AC - min	690 V
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	40 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	80 kA
Rated short-time withstand current (Icw)	0.64 kA 640 A, Contacts, 1 second
Short-circuit protection rating	50 A gG/gL, Fuse, Contacts
Switching capacity	
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) $2 \times l$ # (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	Black
Actuator type	Door coupling rotary drive
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	3.5 W
Rated operational current for specified heat dissipation (In)	40 A
Static heat dissipation, non-current-dependent Pvs	0 W
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.
10.2.4 Resistance to ultra-violet (UV) radiation	UV resistance only in connection with protective shield.
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 main switch Version as maintenance-/service switch Version as safety switch Version as emergency stop installation Version as reversing switch No Number of switches I Max. rated operation voltage Ue AC Rated operating voltage V 690 - 690 Rated permanent current lu 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 KW 15	
Version as safety switch Version as emergency stop installation Version as reversing switch No Number of switches I Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690 Rated permanent current lu A 40 Rated permanent current at AC-23, 400 V Rated permanent current at AC-21, 400 V A 40	
Version as emergency stop installation Version as reversing switch No Number of switches 1 Max. rated operation voltage Ue AC Rated operating voltage V 690 - 690 Rated permanent current lu A 40 Rated permanent current at AC-23, 400 V Rated permanent current at AC-21, 400 V A 40	
Version as reversing switch No Number of switches 1 Max. rated operation voltage Ue AC Rated operating voltage V 690 - 690 Rated permanent current lu A 40 Rated permanent current at AC-23, 400 V Rated permanent current at AC-21, 400 V A 40	
Number of switches 1 Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690 Rated permanent current lu A 40 Rated permanent current at AC-23, 400 V A 40 Rated permanent current at AC-21, 400 V A 40	
Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690 Rated permanent current lu A 40 Rated permanent current at AC-23, 400 V A 40 Rated permanent current at AC-21, 400 V A 40	
Rated operating voltage V 690 - 690 Rated permanent current lu A 40 Rated permanent current at AC-23, 400 V A 40 Rated permanent current at AC-21, 400 V A 40	
Rated permanent current lu A 40 Rated permanent current at AC-23, 400 V A 40 Rated permanent current at AC-21, 400 V A 40	
Rated permanent current at AC-23, 400 V A 40 Rated permanent current at AC-21, 400 V A 40	
Rated permanent current at AC-21, 400 V A 40	
Rated operation power at AC-3, 400 V kW 15	
Rated short-time withstand current lcw kA 0.64	
Rated operation power at AC-23, 400 V kW 22	
Switching power at 400 V kW 22	
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 devi	ice 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 Black	
Type of control element Door coupli	ng rotary drive
Interlockable	
Type of electrical connection of main circuit Screw conn	nection
Degree of protection (IP), front side	
Degree of protection (NEMA)	