Safety switch, P1, 32 A, 3 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in position 0 with cover interlock, with warning label "safety switch"



Part no. P1-32/I2-SI/HI11 207331

General specifications	
Product name	Eaton Moeller® series P1 Safety switch
Part no.	P1-32/I2-SI/HI11
EAN	4015082073312
Product Length/Depth	125 millimetre
Product height	180 millimetre
Product width	100 millimetre
Product weight	0.462 kilogram
Compliances	VDE
Certifications	IEC 60947 EN 60947 EN 60204 VDE IEC/EN 60947 IEC/EN 60204 VDE 0660 IEC/EN 60947-3
Product Tradename	P1
Product Type	Safety switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Features	Version as safety switch Version as emergency stop installation
Fitted with:	Red rotary handle and yellow locking ring Warning label "Safety switch"
Functions	Emergency switching off function Interlockable
Locking facility	Lockable in the 0 (Off) position (cover interlock)
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	300,000 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
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °C
Ambient operating temperature (enclosed) - min	-25 °C
	40 °C

2 x (1.5 - 6) mm², solid or stranded 1 x (1 - 4) mm², flexible with ferrules to DIN 46228 2 x (1 - 4) mm², flexible with ferrules to DIN 46228 1 x (1.5 - 6) mm², solid or stranded M4, Terminal screw
1 x (1 - 4) mm², flexible with ferrules to DIN 46228 2 x (1 - 4) mm², flexible with ferrules to DIN 46228 1 x (1.5 - 6) mm², solid or stranded
M4, Terminal screw
14.1 lb-in, Screw terminals 1.6 Nm, Screw terminals
260 A
300 A
290 A
250 A
26.4 A
26.4 A
23.4 A
14.7 A
32 A
32 A
32 A
30 A
19.8 A
32 A
25 A
25 A
25 A
12 A
13 kW
13 kW
18.5 kW
15.8W
7.5 kW
15 kW
18.5 kW
15 kW
690 V
32 A
Rated uninterrupted current lu is specified for max. cross-section.
80 kA
0.64 kA 640 A, Contacts, 1 second
50 A gG/gL, Fuse, Contacts
2 x l# (with intermittent operation class 12, 25 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor)
1
2
2
3
320 A
60 V
1 failure per 100,000 switching operations statistically determined, at 24 V DC, 1 mA)
0

Number of auxiliary contacts (normally closed contacts)	1
Number of auxiliary contacts (normally open contacts)	1
Actuator	
Actuator color	Red
Actuator type	Door coupling rotary drive
Design verification	
Equipment heat dissipation, current-dependent Pvid	1.8 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	1.8 W
Rated operational current for specified heat dissipation (In)	32 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 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])

Version as main switch			No
Version as maintenance-/service switch			No
Version as safety switch			Yes
Version as emergency stop installation			Yes
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	А	١.	32
Rated permanent current at AC-23, 400 V	А	١	32
Rated permanent current at AC-21, 400 V	А	١.	32
Rated operation power at AC-3, 400 V	kV	W	13
Rated short-time withstand current lcw	k.A	Α	0.64
Rated operation power at AC-23, 400 V	kV	W	15
Switching power at 400 V	kV	W	15
Conditioned rated short-circuit current Iq	k.A	Α	80

Number of poles		3
Number of auxiliary contacts as normally closed contact		1
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
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		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
With pre-assembled cabling		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12
Width	mm	100
Height	mm	180
Depth	mm	125
Width in number of modular spacings		