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

Product name	Eaton Moeller® series P1 Safety switch
Part no.	P1-32/I2-SI/HI11
AN	4015082073312
Product Length/Depth	125 millimetre
Product height	180 millimetre
Product width	100 millimetre
Product weight	0.462 kilogram
Compliances	VDE
ertifications	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
eatures	Version as safety switch Version as emergency stop installation
itted with:	Red rotary handle and yellow locking ring Warning label "Safety switch"
unctions	Emergency switching off function Interlockable
ocking facility	Lockable in the 0 (Off) position (cover interlock)
lumber of poles	Three-pole
accessories	Auxiliary contact or neutral conductor fitted by user.
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
ifespan, mechanical	300,000 Operations
Mounting method	Surface mounting
Mounting position	As required
perating frequency	1200 Operations/h
overvoltage category	III
Collution degree	3
lated impulse withstand voltage (Uimp)	6000 V AC
afe isolation	440 V AC, Between the contacts, According to EN 61140
afety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
chock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 n
uitable for	Ground mounting
umbient operating temperature - min	-25 °C
ambient operating temperature - max	40 °C
	-25 °C
Imbient operating temperature (enclosed) - min	
unbient operating temperature (enclosed) - min unbient operating temperature (enclosed) - max	40 °C

Terminal capacity	2 x (1.5 - 6) mm ² , solid or stranded
Tommar duputery	1 x (1 - 4) mm ² , 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
Screw size	M4, Terminal screw
Tightening torque	14.1 lb-in, Screw terminals
Tryficeting torque	1.6 Nm, Screw terminals
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	260 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	300 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	290 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	250 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	26.4 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	26.4 A
Rated operational current (Ie) at AC-3, 500 V	23.4 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	14.7 A
Rated operational current (Ie) at AC-21, 440 V	32 A
Rated operational current (Ie) at AC-23A, 230 V	32 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	32 A
Rated operational current (Ie) at AC-23A, 500 V	30 A
Rated operational current (Ie) at AC-23A, 690 V	19.8 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	32 A
Rated operational current (Ie) at DC-23A, 24 V	25 A
Rated operational current (Ie) at DC-23A, 48 V	25 A
Rated operational current (Ie) at DC-23A, 60 V	25 A
Rated operational current (Ie) at DC-23A, 120 V	12 A
Rated operational power at AC-3, 380/400 V, 50 Hz	13 kW
Rated operational power at AC-3, 415 V, 50 Hz	13 kW
Rated operational power at AC-3, 500 V, 50 Hz	18.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	15 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	15 kW
Rated operational power at AC-23A, 500 V, 50 Hz	18.5 kW
Rated operational power at AC-23A, 690 V, 50 Hz	15 kW
Rated operational voltage (Ue) at AC - min	690 V
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	32 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
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
Load rating	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)
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
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	320 A
Voltage per contact pair in series	60 V
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, mA)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	1

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10.7 Internal electrical circuits and connections 1s the panel builder's responsibility. 10.8 Connections for external conductors 1s the panel builder's responsibility. 10.9.2 Power-frequency electric strength 1s the panel builder's responsibility. 10.9.3 Impulse withstand voltage 1s the panel builder's responsibility. 1s the panel builder's responsibility. 1s the panel builder's responsibility. 1s the panel builder is responsibility. 1numberature rise The panel builder is responsible for the temperature rise calculation. Eaton we provide heat dissipation data for the devices. 1s the panel builder's responsibility. The specifications for the switchgear must observed. 1s the panel builder's responsibility. The specifications for the switchgear must observed. 1s the panel builder's responsibility. The specifications for the switchgear must observed. 1s the panel builder's responsibility. The specifications for the switchgear must observed.	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors 1s the panel builder's responsibility. 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 1s the panel builder's responsibility. 1o.9.4 Testing of enclosures made of insulating material 1s the panel builder's responsibility. 1o.10 Temperature rise 1o.11 Short-circuit rating 1o.12 Electromagnetic compatibility 1o.13 Mechanical function 1o.14 Mechanical function 1o.15 Mechanical function 1o.16 Let panel builder's responsibility. The specifications for the switchgear must observed. 1o.17 Mechanical function 1o.18 Mechanical function 1o.19 Let panel builder's responsibility. The specifications for the switchgear must observed. 1o.19 Mechanical function 1o.10 Temperature rise 1o.11 Short-circuit rating 1o.12 Let panel builder's responsibility. The specifications for the switchgear must observed. 1o.19 Mechanical function 1o.10 Temperature rise 1o.11 Short-circuit rating 1o.12 Let panel builder's responsibility. The specifications for the switchgear must observed. 1o.11 Short-circuit rating 1o.12 Let panel builder's responsibility. The specifications for the switchgear must observed. 1o.11 Short-circuit rating 1o.12 Let panel builder's responsibility. The specifications for the switchgear must observed. 1o.11 Short-circuit rating 1o.12 Let panel builder's responsibility. The specifications for the switchgear must observed.	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise The panel builder's responsible for the temperature rise calculation. Eaton we provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.10 Temperature rise The panel builder is responsible for the temperature rise calculation. Eaton we provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	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.
icalict (iL) is 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		No
Version as maintenance-/service switch		No
Version as safety switch		Yes
Version as emergency stop installation		No
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	Α	32
Rated permanent current at AC-23, 400 V	Α	32
Rated permanent current at AC-21, 400 V	Α	32
Rated operation power at AC-3, 400 V	kW	13
Rated short-time withstand current lcw	kA	0.64
Rated operation power at AC-23, 400 V	kW	15
Switching power at 400 V	kW	15
Conditioned rated short-circuit current Iq	kA	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	No
Type of electrical connection of main circuit	Screw connection
Degree of protection (IP), front side	IP65
Degree of protection (NEMA)	12