

$Main\ switch,\ +housing,\ 3p+1N/O+1N/C,\ 25A,\ handle\ black,\ lockable$

Powering Business Worldwide*

Part no. P1-25/I2/SVB-SW/HI11 Article no. 207295

Delivery programme		
Product range		Main switch maintenance switch Repair switch
Part group reference		P1
Emergency STOP		Emergency stop function
		With black rotary handle and locking ring
Notes		auxiliary contact or neutral conductor fitted by user
Number of poles		3 pole
Auxiliary contacts		
\ ¹	N/0	1
7	N/C	1
Locking facility		Lockable in the 0 (Off) position
Degree of Protection		IP65
		totally insulated
Design		surface mounting
Contact sequence		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Function		O OFF

Approvals

400 V

Motor rating AC-23A, 50 - 60 Hz

Rated uninterrupted current

Approvato	
Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified

kW

Α

13

25

P

Specially designed for North America	Yes, in combination with "+NA-I2" (105866)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 3R, 12

General

Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		°C	
Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Contacts			
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/O	1
		N/C	1
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	A	25
Note on rated uninterrupted current !u	u		Rated uninterrupted current lu is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		v I	2
		x l _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	25
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	640
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	In = 80: 50
Switching capacity			
cos φ rated making capacity as per IEC 60947-3		Α	240
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	190
400/415 V		Α	150
500 V		Α	170
690 V		Α	150
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	1.1
Current heat loss per auxiliary circuit at I $_{\rm e}$ (AC-15/230 V)		CO	0.2
Lifespan, mechanical	Operations	x 10 ⁶	> 0.3
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	Р	kW	5.5
400 V 415 V	Р	kW	7.5
500 V	Р	kW	7.5
690 V	P	kW	7.5
Rated operational current motor load switch			

230 V	l _e	Α	19.6
400V 415 V	l _e	Α	15.2
500 V	l _e	Α	12.1
690 V	l _e	Α	8.8
AC-21A			
Rated operational current switch			
440 V	l _e	Α	25
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	5.5
400 V 415 V	Р	kW	11
500 V	Р	kW	11
690 V	Р	kW	11
Rated operational current motor load switch			
230 V	I _e	Α	25
400 V 415 V	I _e	Α	25
500 V	l _e	Α	17.4
690 V	I _e	Α	12.6
DC	C		
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	Α	25
Voltage per contact pair in series	·e	V	60
DC-23A, motor load switch L/R = 15 ms		•	
24 V			
Rated operational current	I _e	Α	25
Contacts	·e	Quantity	
48 V		Qualitity	1
Rated operational current		Α	25
	l _e		
Contacts		Quantity	2
60 V			ar.
Rated operational current	l _e	A	25
Contacts		Quantity	2
120 V			
Rated operational current	le	Α	12
Contacts		Quantity	
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
Terminal capacities	,		
Solid or stranded		mm ²	1 x (1,5 - 6) 2 x (1,5 - 6)
Flexible with ferrules to DIN 46228		mm ²	1 x (1 - 4) 2 x (1 - 4)
Terminal screw			M4
Max. tightening torque		Nm	1.6
Technical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1

Data for design verification according to IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	25
Heat dissipation per pole, current-dependent	P _{vid}	W	1.1
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
EC/EN 61439 design verification			

10.2 Strength of materials and parts	
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Please enquire
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 Insulation properties	
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 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 leaflet (IL) is observed.

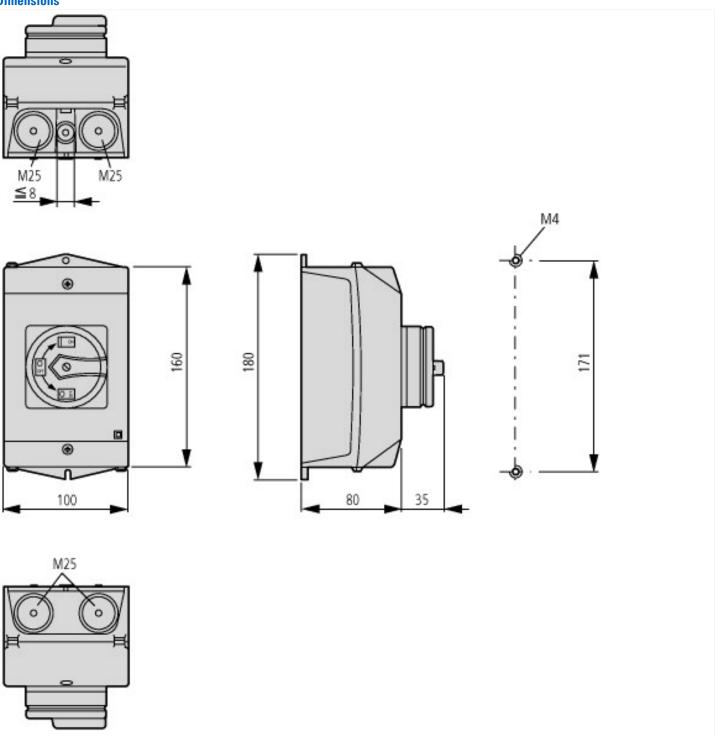
Technical data ETIM 5.0

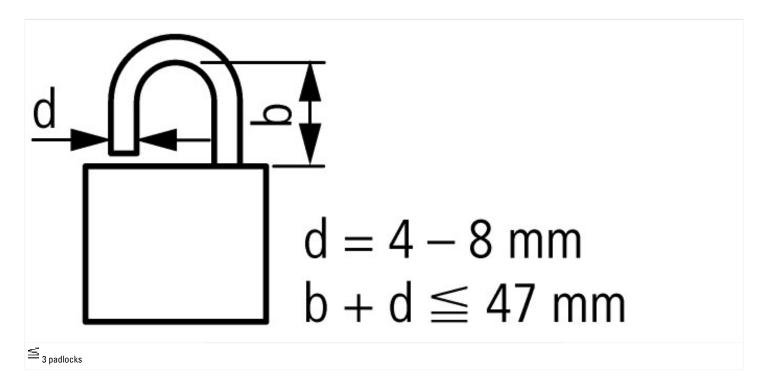
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8-27-37-14-03 [AKF060009])

Interlockable		Yes
Type of control element		
Suitable for intermediate mounting		No
Suitable for distribution board installation		No
Suitable for front mounting center		No
Suitable for front mounting		No
Suitable for ground mounting		Yes
Device construction		Complete device in housing
Voltage release optional		No
Motor drive integrated		No
Motor drive optional		No
Number of auxiliary contacts as change-over contact		0
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		1
Number of poles		3
Conditioned rated short-circuit current Iq		80
Rated operation power at AC-23, 400 V		13
Rated operation power AC-3, 400 V		7.5
Rated permanent current lu	V A	25
Version as emergency stop installation Max. rated operation voltage Ue AC	V	No 690
Version as safety switch		No
Version as maintenance-/service switch		Yes
Version as main switch		Yes
Version as switch disconnector compact		Yes
[AKFUbUUU9])		

Dimensions





Additional product information (links)

IL03802001Z (AWA1150-1689) Switch-Disconnectors in insulated enclosures	
IL03802001Z (AWA1150-1689) Switch- Disconnectors in insulated enclosures	ftp://ftp.moeller.net/D0CUMENTATION/AWA_INSTRUCTIONS/IL03802001Z2014_02.pdf
Form for ordering non-standard front plates	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Switches for ATEX Zone 22	http://www.coopercrouse-hinds.eu/en/products/10-ex-safety-and-main-current-switches.html
UL/CSA: Rating data for approved types	http://ecat.moeller.net/flip-cat/?edition=HPLTF&startpage=4.90