

Panic switches, 3 pole, 32 A, Cylinder lock SVA, front plate 0-1, 90 °, maintained, flush mounting, P

Powering Business Worldwide*

Part no. T3-2-1/E/SVA(S) Article no. 050983

Delivery program			
Product range			Switch with locking mechanism
Part group reference			ТЗ
Basic function			Panic switches
			with black thumb grip and front plate
Information about equipment supplied			with two keys
Number of poles			3 pole
locking arrangement			Cylinder lock SVA
Notes			If the key is withdrawn in position 1 the switch can be switched off but not on again without the key.
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Switching angle		0	90
Switching performance			maintained
Front plate no.			FS 908
front plate			0-1
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	Iu	Α	32
Number of contact units		contact unit(s)	2

Technical data

General

General		
Standards		IEC/EN 60947, VDE 0660, IEC/EN 60204 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		
Open	°C	-25 - +50
Enclosed	°C	-25 - +40

Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance	iiip	g	15
Mounting position		9	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
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	Α	32
Note on rated uninterrupted current !u			Rated uninterrupted current lu is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x l _e	2
AB 40 % DF		x I _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)	ı		650
Note on rated short-time withstand current low	I _{cw}	A _{rms}	
	la.	LΛ	Current for a time of 1 second
Rated conditional short-circuit current Switching capacity	Iq	kA	1
cos φ rated making capacity as per IEC 60947-3		Α	320
Rated breaking capacity cos ϕ to IEC 60947-3		A	
230 V		Α	260
400/415 V		A	260
500 V		Α	240
690 V		A	170
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l _e		W	1.1
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	1.1
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h	X 10	1200
AC	орогистопол		
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	P	kW	5.5
230 V Star-delta	P	kW	7.5
400 V 415 V	Р	kW	11
400 V Star-delta	P	kW	15
500 V	P	kW	15
500 V Star-delta	P	kW	18.5
690 V	P	kW	11
690 V Star-delta	P	kW	22
Rated operational current motor load switch			
230 V	I _e	A	23.7
230 V star-delta	I _e	Α	32
400V 415 V	I _e	A	23.7
400 V star-delta	l _e	A	32
500 V			
	l _e	A	23.7
500 V star-delta	l _e	A	32
690 V	l _e	Α	14.7
690 V star-delta	l _e	Α	25.5

AC-21A			
Rated operational current switch		^	20
440 V	I _e	Α	32
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	Р	kW	7.5
400 V 415 V	Р	kW	15
500 V	Р	kW	15
690 V	Р	kW	15
Rated operational current motor load switch			
230 V	I _e	Α	32
400 V 415 V	I _e	Α	32
500 V	le	Α	26.4
690 V	I _e	Α	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	Α	25
Voltage per contact pair in series	-	V	60
DC-21A	I _e	A	
		A	1
Rated operational current	l _e		
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	1
48 V			
Rated operational current	le	Α	25
Contacts		Quantity	2
60 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	3
120 V			
Rated operational current	l _e	Α	12
Contacts		Quantity	3
240 V			
Rated operational current	I _e	Α	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	Α	20
Voltage per contact pair in series		V	24
Control circuit reliability at 24 V DC, 10 mA	Fault	HF	< 10 ⁻⁵ , < 1 fault in 100000 operations
	probability		10 , 1 I dult iii 100000 operations
Terminal capacities		_	. (4.0)
Solid or stranded		mm ²	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 4) 2 x (0.75 - 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
Rating data for approved types			
Terminal capacity			
Terminal screw			M4

Design verification	as per	IEC/EN	61439
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Technical data for design verification

Rated operational current for specified heat dissipation	In	Α	32
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
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
IEC/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.
10.2.3.3Verification 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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

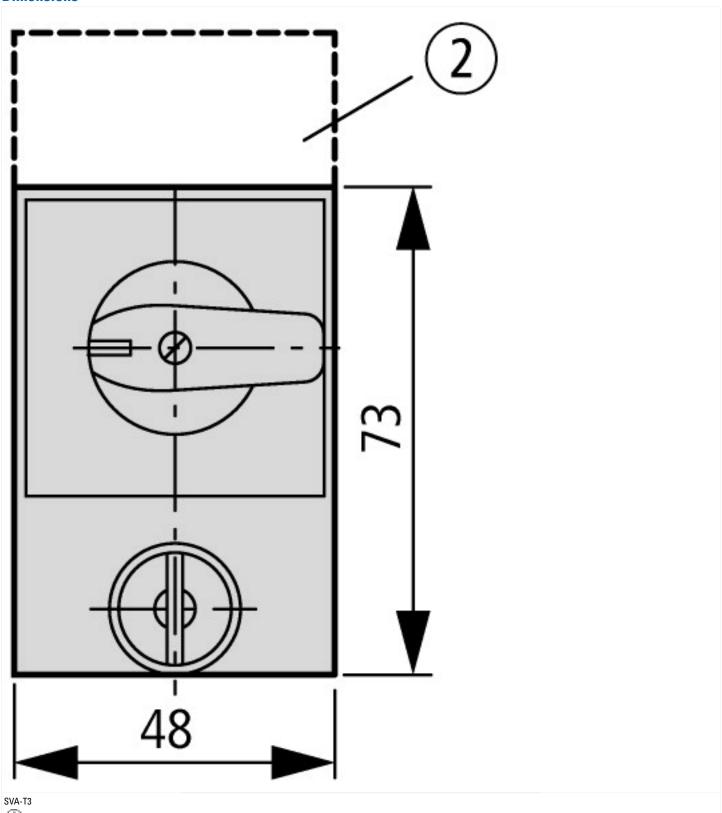
Technical data ETIM 6.0

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

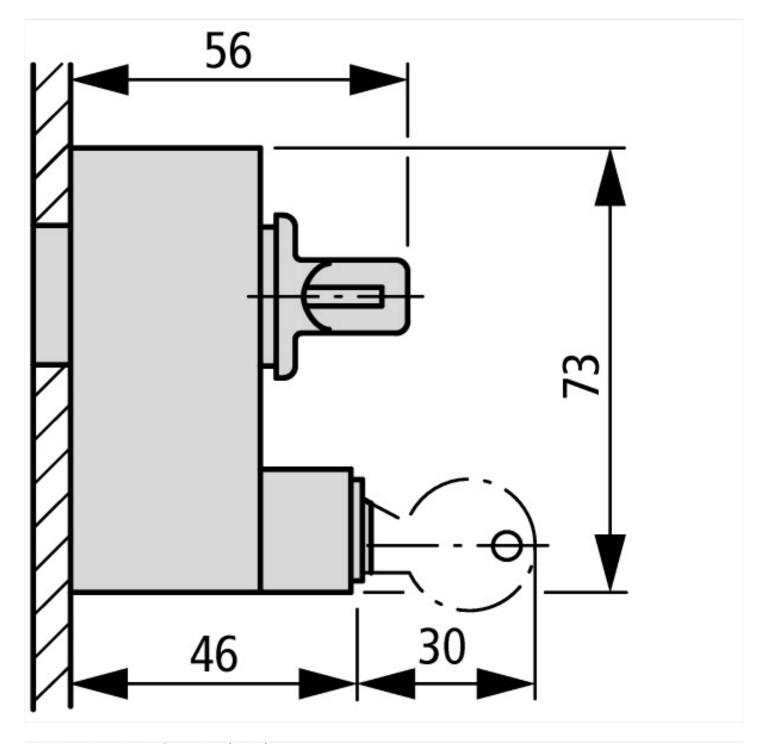
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])

[AKF060010])		
Version as main switch		No
Version as maintenance-/service switch		No
Version as safety switch		No
Version as emergency stop installation		No
Version as reversing switch		No
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-21, 400 V	А	32
Rated operation power at AC-3, 400 V	kW	11
Rated short-time withstand current lcw	kA	0.65
Rated operation power at AC-23, 400 V	kW	15
Switching power at 400 V	kW	15
Conditioned rated short-circuit current Iq	kA	1

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 device fixed built-in technique
Suitable for ground mounting	No
Suitable for front mounting 4-hole	Yes
Suitable for front mounting center	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	No
Colour control element	Black
Type of control element	Toggle
Interlockable	Yes
Type of electrical connection of main circuit	Screw connection
Degree of protection (IP), front side	IP65



2 ZFS-... Label mount not included as standard



Additional product information (links)

IL03801015Z (AWA1150-1367, AWA115-1368) Cylinder lock interlock, padlocking feature IL03801015Z (AWA1150-1367, AWA115-1368) Cylinder lock interlock, padlocking feature ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801015Z2016_07.pdf Display flip catalog page. http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=40 Technical overview cam switch, switch-disconnector http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2 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 http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8			
Cylinder lock interlock, padlocking feature Display flip catalog page. http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=40 Technical overview cam switch, switch-disconnector 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	IL03801015Z (AWA1150-1367, AWA115-1368) Cylinder lock interlock, padlocking feature		
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Key to part numbers Switch-disconnector http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	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	
Switches for ATEX http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html	Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
	Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html	