DATASHEET - T0-3-8341/I1/SVB-SW



Main switch, T0, 20 A, surface mounting, 3 contact unit(s), 5-pole, STOP function, With black rotary handle and locking ring



Part no. T0-3-8341/I1/SVB-SW

Catalog No. 222670

Delivery program			
Product range			Main switch maintenance switch Repair switch
Part group reference			ТО
Stop Function			STOP function
			With black rotary handle and locking ring
Number of poles			5-pole
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			0 1
			1 0 X 2 0 X 3 0 X 5 0 X 7 0 X 9 0 X
Switching angle		0	90
Design number			8341
Function			OFF O
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	I _u	Α	20
Note on rated uninterrupted current !u			Rated uninterrupted current $I_{\rm u}$ is specified for max. cross-section.
Number of contact units		contact unit(s)	

Technical data

IE	CI	Ш	Ud	Ц
Gei	nei	al		

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			
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
Contacts			
Mechanical variables			
Number of poles			5-pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	20
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x l _e	2
AB 40 % DF			
		x l _e	1.6
AB 60 % DF		x l _e	1.3
Short-circuit rating			
Fuse		A gG/gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	I_q	kA	6
Switching capacity			
cos φ rated making capacity as per IEC 60947-3		Α	130
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	100
400/415 V		Α	110
500 V		Α	80
690 V		Α	60
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	0.6
Current heat loss per auxiliary circuit at l _e (AC-15/230 V)		CO	0.6
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	Р	kW	3
230 V Star-delta	P	kW	5.5
400 V 415 V	P	kW	5.5
400 V Star-delta	P	kW	7.5
500 V	P	kW	5.5
500 V Star-delta	P	kW	7.5
690 V	P	kW	4
690 V Star-delta	P	kW	5.5
Rated operational current motor load switch			
230 V	le	Α	11.5
230 V star-delta	I _e	Α	20
	Ü		

Map Varience of the second part of the second p	400V 415 V	1	Α	11.5
SIB V Varienchane				
S00 y san-infolia				
Mac		l _e		
AC2NA Ac4SY Ac4SY Motor ratios AC2NA 30-40142 AC9 AC9 AC9 AC9 AC9 AC9 AC9 AC		I _e	Α	
Rule of operational current south	690 V star-delta	l _e	Α	8.5
Add				
Montroming AC 22A, 50 - 10 14 14				
Maint rating AC 23A, 51 -68 Hz	440 V	I _e	Α	20
200				
March Marc				
S00 V				
Figure Part				
Rated operational current meter land switch I				
200 1		Р	KVV	5.5
400 v 415 v			۸	12.2
BOB Parameter				
DC-1_tood-break switchea L/R = 1 ms Image: Contact of the contact pair in series Image: Contact pair in serie				
DC-1, Loed-break switches L/R = 1 ms		le	А	7.6
Rated operational current I _e A ICC Plan				
Voltage per contact pair in series V 60 DC-21A Ie A Rated operational current Ie A 1 Contacts Contacts V 20 usentry 1 DC-23A, motor load switch L/R = 15 ms V 24 V 1 Contacts V 0 usentry 1 Contacts V 0 usentry 1 48 V V 1 1 Rated operational current Ie A 10 Contacts V 2 1 60 V V 2 1 Rated operational current Ie A 10 Contacts Outstrance 1 1 1 Contacts Outstrance 1 0 1 Rated operational current Ie A 5 Contacts Outstrance 1 0 0 Rated operational current Ie A 5 Rated operational current Ie				
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Contacts Quantity Quantity 1 DC-23A, motor load switch L/R = 15 ms 4 4 4 Rated operational current Ie A 10 Contacts 48 V 4 10 Rated operational current Ie A 10 Contacts Quantity 2 60 V 4 10 Rated operational current Ie A 10 Contacts Quantity 2 Contacts Quantity 3 Rated operational current Ie A 5 Contacts Quantity 3 Rated operational current Ie A 5 Rated operational current Ie A 5 Rated operational current Ie A 5 Contacts Quantity 3 Contacts Quantity 5 PC-13, Control switches L/R = 50 ms Ye 2 Rated operational current Ie Ye 10 <				
DC-23A, motor load switch L/R = 15 ms Is	Rated operational current	l _e		
Altad operational current International current			Quantity	1
Rated operational current I				
Contacts				
A8 to doperational current Ia		I _e		
Rated operational current Ia			Quantity	1
Contacts 60 V Rated operational current Rate				10
Rated operational current		I _e		
Rated operational current Contacts 120 V Rated operational current Contacts 120 V Rated operational current Contacts 240 V Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fixible with ferrules to DIN 46228 Fixible with ferrules to DIN 46228 Terminal screw I D Quantity I D Quantity I D Quantity I			Quantity	2
Contacts Rated operational current Contacts Quantity A 5 Quantity Bated operational current A 6 Quantity Bated operational current A 7 Quantity Bated operational current A 8 Quantity Bated operational current A 9 Quantity Bated operational current A 10 Quantity A 10 Quantity A 10 Control circuit reliability at 24 V DC, 10 mA A 10 A 10 Control circuit reliability at 24 V DC, 10 mA A 10 A 10 A 10 Control circuit reliability at 24 V DC, 10 mA A 10 A 10 Control circuit reliability at 24 V DC, 10 mA A 10 A 10 A 10 Control circuit reliability at 24 V DC, 10 mA A 10			^	10
120 V Rated operational current Contacts Quantity Agree operational current Rated operational current Rated operational current Rated operational current Contacts Contacts Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Voltage per contac	·	I _e		
Rated operational current Contacts Quantity A 5 Quantity Rated operational current Rated operational current Rated operational current DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Voltage per contact pair in series Rated operational current Voltage per contact pair in series Rated operational current Fault probability Rated operational current Fault probability Rated operational current Rated operational current Voltage per contact pair in series Terminal capacities Terminal capacities Solid or stranded mm² Ix (1 - 2,5) 2x (1 - 2,5) 2x (1 - 2,5) 2x (0.75 - 2.5) Xx (0.75 - 2.5			Quantity	3
Contacts 240 V Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Terminal capacities Solid or stranded Terminal capacities Terminal screw Terminal screw Ma.5 Quantity 5 Quantity 6 Quantity 5 Quantity 5 Quantity 5 Quantity 5 Quantity 6 Quantity 5 Quantity 5 Quantity 6 Quantity 5 Quantity 6 Quantity 5 Quantity 5 Quantity 6 Quantity 7 Quantity 6 Quantity 7 Quantity 7			۸	E
Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Terminal capacities Solid or stranded Final screw Terminal screw M3.5		I _e		
Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Terminal capacities Solid or stranded mm² 1 x (1 - 2,5) 2 x (1 - 2,5) 2 x (0.75 - 2.5) 2 x (0.75 - 2.5) Terminal screw M3.5			quantity	3
Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Terminal capacities Solid or stranded mm² 1 x (1 - 2,5) 2 x (0.75 - 2.5) Terminal screw M3.5		ı	Δ	5
Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Terminal capacities Solid or stranded mm² 1 × (1 - 2,5) 2 × (1 - 2,5) 2 × (1 - 2,5) 2 × (1 - 2,5) 2 × (0.75 - 2.5) 2 × (0.75 - 2.5) Terminal screw M3.5		·e		
Rated operational current Voltage per contact pair in series Vol			quantity	
Voltage per contact pair in series Fault probability HF		l _o	Δ	10
Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability HF < 10 ⁻⁵ ,< 1 failure in 100,000 switching operations Terminal capacities Solid or stranded mm² 1 x (1 - 2,5) 2 x (1 - 2,5) 2 x (1 - 2,5) 2 x (0.75 - 2.5) 2 x (0.75 - 2.5) 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) 2 x (0.75 - 2.5) M3.5		·e		
Terminal capacities Solid or stranded mm² 1 x (1 - 2,5) 2 x (1 - 2,5) Flexible with ferrules to DIN 46228 mm² 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) Terminal screw M3.5		Fault		
Solid or stranded mm² 1 x (1 - 2,5) 2 x (1 - 2,5) Flexible with ferrules to DIN 46228 mm² 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) Terminal screw M3.5				< 10 ,< 1 failure in 100,000 switching operations
2 x (1 - 2,5)	Terminal capacities			
Flexible with ferrules to DIN 46228 mm² 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) Terminal screw M3.5	Solid or stranded		mm ²	1 x (1 - 2,5) 2 x (1 - 2,5)
2 x (0.75 - 2.5) Terminal screw M3.5	Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 2.5)
				2 x (0.75 - 2.5)
Tightening torque for terminal screw Nm 1				
	Tightening torque for terminal screw		Nm	1

Technical safety parameters:

Notes	B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types	
Terminal capacity	
Terminal screw	M3.5

Design verification as per IEC/EN 61439

Design Verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
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	40
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.
10.2.3.3 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			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 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 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 7.0

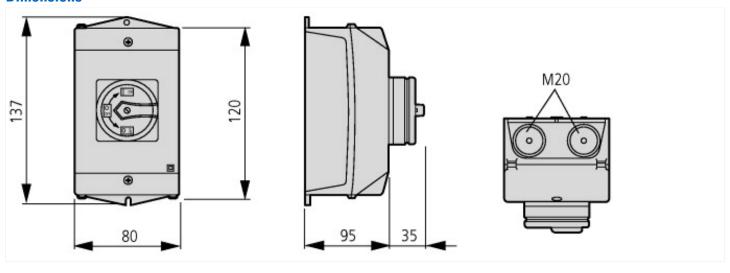
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

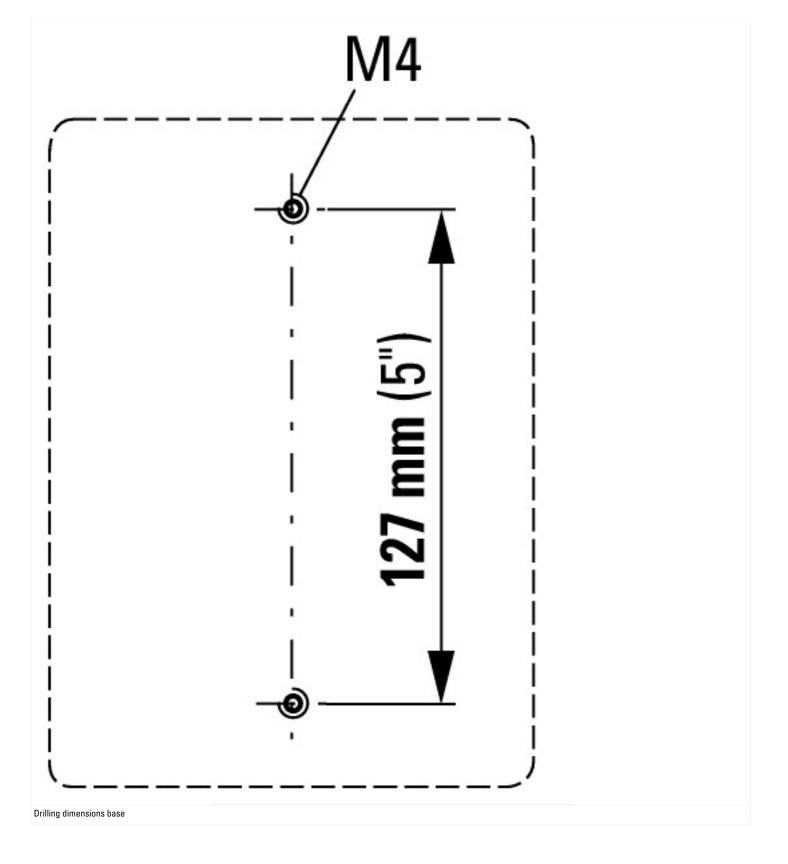
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

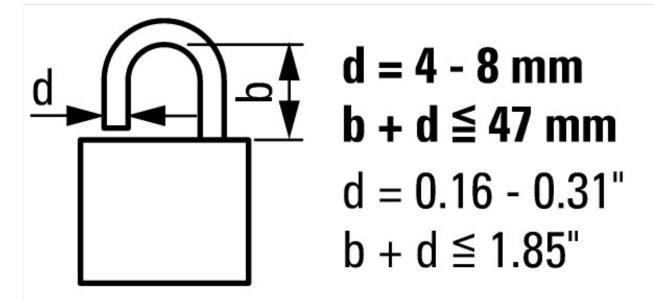
Version as maintenance-/service switch Version as safety switch Version as emergency stop installation Version as reversing switch No Number of switches I Max. rated operating voltage Version as maintenance-/service switch No No Rated operating voltage Version as maintenance-/service switch No No 690 Rated operating voltage	[ANFU00U13])		
Version as safety switchNoVersion as emergency stop installationNoVersion as reversing switchNoNumber of switches1Max. rated operating voltage Ue ACVRated operating voltageV690 - 690	Version as main switch		Yes
Version as emergency stop installation Version as reversing switch No Number of switches 1 Max. rated operating voltage Ue AC Rated operating voltage V 690 690	Version as maintenance-/service switch		Yes
Version as reversing switch No Number of switches 1 Max. rated operation voltage Ue AC Vo 690 Rated operating voltage V 690 - 690	Version as safety switch		No
Number of switches 1 Max. rated operating voltage Ue AC V 690 Rated operating voltage V 690 - 690	Version as emergency stop installation		No
Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690	Version as reversing switch		No
Rated operating voltage V 690 - 690	Number of switches		1
	Max. rated operation voltage Ue AC	V	690
Rated permanent current lu A 20	Rated operating voltage	V	690 - 690
	Rated permanent current lu	Α	20

Rated permanent current at AC-23, 400 V	А	A	13.3
Rated permanent current at AC-21, 400 V	А	A	20
Rated operation power at AC-3, 400 V	k	κW	5.5
Rated short-time withstand current lcw	k	κA	0.32
Rated operation power at AC-23, 400 V	k	κW	5.5
Switching power at 400 V	k	κW	5.5
Conditioned rated short-circuit current Iq	k	κA	6
Number of poles			5
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			Complete device in housing
Suitable for ground 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			Black
Type of control element			Door coupling rotary drive
Interlockable			Yes
Type of electrical connection of main circuit			Screw connection
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			Other

Dimensions







≦3 padlocks

Assets (links)

Declaration of CE Conformity

00003075

Instruction Leaflets

IL03801007Z2018_05

Additional product information (links)

IL03801007Z (AWA1150-1687) Cam switches: su	urface mounting enclosure
IL03801007Z (AWA1150-1687) Cam switches: surface mounting enclosure	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801007Z2018_05.pdf
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=41
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	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/D0CUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf