DATASHEET - T0-4-8344/I1/SVB



Main switch, T0, 20 A, surface mounting, 4 contact unit(s), 8-pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. Catalog No. T0-4-8344/I1/SVB 207163

Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			ТО
Stop Function			Emergency switching off function
			With red rotary handle and yellow locking ring
Number of poles			8-pole
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			
Switching angle		0	90
Design number			8344
Function			
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	lu	A	20
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
Number of contact units		contact unit(s)	4

Technical data

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			As required
Mechanical variables			
Number of poles			8-pole
Electrical characteristics			
Rated operational voltage	Ue	V AC	690
Rated uninterrupted current	l _u	A	20
Note on rated uninterrupted current !u	·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			1.6
		x l _e	
AB 60 % DF		x I _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	Iq	kA	6
Switching capacity		٨	130
cos φ rated making capacity as per IEC 60947-3 Rated breaking capacity cos φ to IEC 60947-3		A A	130
			100
230 V 400/415 V		A A	100
400/415 V 500 V		A	80
690 V		A	60
Safe isolation to EN 61140		~	
between the contacts		V AC	440
Current heat loss per contact at l _e		W	0.6
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		C0	0.6
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	3
230 V Star-delta	Р	kW	5.5
400 V 415 V	Р	kW	5.5
400 V Star-delta	Р	kW	7.5
500 V	Р	kW	5.5
500 V Star-delta	P	kW	7.5
690 V	P	kW	4
690 V Star-delta	Р	kW	5.5
Rated operational current motor load switch			
230 V	le	A	11.5
230 V star-delta	le	А	20
400V 415 V	le	А	11.5
400 V star-delta	le	А	20
500 V	le	А	9
500 V star-delta	le	А	15.6
690 V	le	A	4.9
690 V star-delta	le	A	8.5
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	3
400 V 415 V	Р	kW	5.5

500 V	Р	kW	7.5
690 V	P	kW	5.5
Rated operational current motor load switch	1	KVV	
230 V	le	A	13.3
400 V 415 V		A	13.3
	l _e		
500 V	l _e	A	13.3
690 V	le	A	7.6
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	le	A	10
Voltage per contact pair in series			60
DC-21A	l _e	A	
Rated operational current	le	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	A	10
Contacts		Quantity	1
48 V			
Rated operational current	le	А	10
Contacts		Quantity	2
60 V			
Rated operational current	le	А	10
Contacts		Quantity	3
120 V			
Rated operational current	l _e	А	5
Contacts		Quantity	3
240 V			
Rated operational current	le	А	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	le	А	10
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Terminal capacities			
Solid or stranded		mm ²	1 x (1 - 2,5) 2 x (1 - 2,5)
Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Terminal screw			M3.5
Tightening torque for terminal screw		Nm	1
Technical safety parameters:			P10. voluce co por EN ISO 12940 1 toble C1
Notes Rating data for approved types			$B10_d$ values as per EN ISO 13849-1, table C1
Terminal capacity			
Terminal screw			M3.5
Tightening torque			8.83

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	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
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		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

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אוסנסו טוועי וווניצוומניט		NU	
Motor drive optional Motor drive integrated		No	
Number of auxiliary contacts as change-over contact		0	
Number of auxiliary contacts as normally open contact		0	
Number of auxiliary contacts as normally closed contact		0	
Number of poles		8	
Conditioned rated short-circuit current Iq	kA		
Switching power at 400 V	kW		
Rated operation power at AC-23, 400 V	kW	W 5.5	
Rated short-time withstand current Icw	kA	A 0.32	
Rated operation power at AC-3, 400 V	kW	W 5.5	
Rated permanent current at AC-21, 400 V	А	20	
Rated permanent current at AC-23, 400 V	А	13.3	
Rated permanent current lu	А	20	
Rated operating voltage	V	690 - 690	
Max. rated operation voltage Ue AC	V	690	
Number of switches		1	
Version as reversing switch		No	
Version as emergency stop installation		Yes	
Version as safety switch		Yes	
Version as maintenance-/service switch		Yes	
Version as main switch		Yes	
Electric engineering, automation, process control engineering / Low-voltage switc [AKF060013])	ch technology / Off-lo	load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1	-27-37-14-03
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)			

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	Red
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





