DATASHEET - T5B-4-8344/EA/SVB-SW



Main switch, T5B, 63 A, flush mounting, 4 contact unit(s), 8-pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position



Part no. T5B-4-8344/EA/SVB-SW Catalog No. 092061

Product range Main switch maintenance switch Repair switc	
Part group reference Stop Function Stop Function With black rotary handle and locking ring Number of poles Locking facility Degree of Protection Design Contact sequence Contact sequence Switching angle maintenance switch Repair sw	
Stop Function STOP function With black rotary handle and locking ring Number of poles Locking facility Degree of Protection Design Front IP65 flush mounting Contact sequence Stop Function With black rotary handle and locking ring Lockable in the 0 (Off) position Front IP65 Contact sequence Stop Function With black rotary handle and locking ring Lockable in the 0 (Off) position Front IP65 Contact sequence Stop Function With black rotary handle and locking ring Lockable in the 0 (Off) position Front IP65 Stop Function Front IP65 Stop Function Front IP65 Stop Function Stop Function With black rotary handle and locking ring Lockable in the 0 (Off) position Front IP65 Stop Function Front IP65 Stop Function Stop Function With black rotary handle and locking ring Stop Function Stop Function With black rotary handle and locking ring Stop Function Stop Function With black rotary handle and locking ring Stop Function Stop Function Stop Function Stop Function With black rotary handle and locking ring Stop Function Stop Function Stop Function Stop Function Front IP65 Fort IP65 Fort IP65 Fort IP65 Stop Function Fort IP65 F	
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Number of poles Locking facility Degree of Protection Design Front IP65 flush mounting Contact sequence Switching angle 8-pole Lockable in the 0 (Off) position Front IP65 Cockable in the 0 (Off) position Front IP65 Sequence Sequence 8-pole Lockable in the 0 (Off) position Front IP65 Foot IP65 Sequence 9	
Lockable in the 0 (Off) position Degree of Protection Design Front IP65 flush mounting Contact sequence Switching angle Lockable in the 0 (Off) position Front IP65 Front IP65 Switching angle	
Degree of Protection Design Front IP65 flush mounting Contact sequence Switching angle Pront IP65 Front IP65 Front IP65 Flush mounting ** ** ** ** ** ** ** ** **	
Design flush mounting Contact sequence Switching angle flush mounting 90	
Contact sequence -XXXXXXX -CONTACT Sequence Switching angle 90	
Switching angle ° 90	
Switching angle ° 90	
Switching angle	
Design number 8344	
Function O O O O O O O O O O O O O O O O O O O	
Motor rating AC-23A, 50 - 60 Hz	
400 V P kW 30	
Rated uninterrupted current I _u A 63	
Note on rated uninterrupted current I _u is specified for max. cross-section.	
Number of contact units contact units 4 unit(s)	

Technical data

General

delleral			
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			
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		g	15
Mounting position			As required

Contacts

Contacts			
Mechanical variables			
Number of poles			8-pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	Α	63
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		Ü	
Fuse		A gG/gL	80
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1300
Note on rated short-time withstand current lcw	CVV	11113	Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	2
Switching capacity	·d	IU (
cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		A	520
400/415 V		A	600
500 V		A	480
690 V		A	340
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	4.5
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	4.5
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
		X IU	
Maximum operating frequency AC	Operations/h		1200
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	P	kW	15
230 V Star-delta	P	kW	18.5
400 V 415 V	P	kW	22
400 V Star-delta	P	kW	30
500 V	P	kW	22
500 V Star-delta	P	kW	37
690 V	P	kW	15
690 V Star-delta	P	kW	22
Rated operational current motor load switch		KVV	
230 V	I _e	A	51
230 V star-delta		A	63
	le		
400V 415 V	l _e	A	41
400 V star-delta	l _e	A	63
500 V	l _e	Α	33
500 V star-delta	l _e	Α	57.2
690 V	l _e	Α	17
690 V star-delta	l _e	Α	29.4
AC-21A			
Rated operational current switch			
440 V	l _e	Α	63
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	

200				
Stop V	230 V	Р	kW	18.5
SBOY P				
### Rate of operational current mother load system. 200				22
220	690 V	Р	kW	22
400 V 415 V	Rated operational current motor load switch			
SOUN	230 V	l _e	Α	63
CO	400 V 415 V	I _e	Α	63
DC-1, Load-break swetches LNR = 1 ms	500 V	I _e	Α	33
DC - Loads break switches UR - 1 ms Ratio operatorial current U	690 V	I _e	Α	23.8
DC-1, Load break switches LR = 1 ms	DC			
Mated operational current				
Voltage per contact pair in series V 50		ام	Α	63
DC 20A, motor load switch L/R = 15 ms 24 V 24				
Marted operational current			•	
Rated operational current				
Contracts			۸	EO.
Rated operational current Part		'e		
Reted operational current			uuantity	1
Contracts				
Rated operational current		l _e		
Rated operational current Part			Quantity	2
Contacts				
Rated operational current	Rated operational current	l _e	Α	50
Rated operational current Percent Percen	Contacts		Quantity	3
Contacts	120 V			
Rated operational current Iu A Quantity Contacts Contacts DC-13, Control switches L/R = 50 ms Rated operational current Iu A Z5 Rotated operational current Iu A Z5 Rotated operational current Iu A Z5 Rotated operational current Iu Iu A Z5 Rotated operational current Iu Iu Iu Iu Iu Iu Iu I	Rated operational current	l _e	Α	25
Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Vultage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Terminal capacities Solid or stranded Solid or stranded Solid or stranded Terminal screw Terminal screw Terminal screw Terminal screw Terminal screw Terminal screw Tothical safety parameters: Notes Rated operational voltage Rated uninterrupted current max. Main conducting paths Switching capacity Maximum motor rating Single-phase Single-phase 1 20 V AC 2 200 V AC 4 PP 7 5 Terminal screw Termina	Contacts		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 Part Porbability Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Part Porbability Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Part Porbability Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Part Porbability Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Part Porbability Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Part Porbability Voltage per contact pair in series Contact	240 V			
DC-13, Control switches L/R = 50 ms Rated operational current I _e A 25 Voltage per contact pair in series Voltage per contact parameters Voltage Voltage per contact parameters Voltage per contact parameters Voltage Voltage per contact parameters Voltage per contact	Rated operational current	I _e	Α	20
Rated operational current Voltage per contact pair in series V	Contacts		Quantity	6
Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability probability Fault probabi	DC-13, Control switches L/R = 50 ms			
Control circuit reliability at 24 V DC, 10 mA Fault probability P	Rated operational current	I _e	Α	25
Control circuit reliability at 24 V DC, 10 mA Fault probability PF Terminal capacities Solid or stranded	Voltage per contact pair in series		٧	24
Terminal capacities		Fault	H _F	< 10 ⁻⁵ < 1 failura in 100 000 switching operations
Solid or stranded mm² 1 x (2,5 - 35) 2 x (2,5 - 16) Flexible with ferrules to DIN 46228 mm² 1 x (2,5 - 35) 2 x (2,5 - 16) Terminal screw mm² 1 x (2,5 - 35) 2 x (2,5 - 16) Terminal screw M6 M6 Tightening torque for terminal screw Nm 4 Technical safety parameters: Notes B10 _d values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts V OO Asted operational voltage V AC 600 Asted uninterrupted current max. A 63 Main conducting paths A 63 Switching capacity A 63 Maximum motor rating B 4 63 Single-phase HP 3 4 120 V AC HP 7.5 240 V AC HP 10		probability		C 10 , C Figure III 100,000 SWITCHING OPERATIONS
Flexible with ferrules to DIN 46228				
Flexible with ferrules to DIN 46228 mm² 1x (1 - 25) 2x (1.5 - 10) Terminal screw M6 Tightening torque for terminal screw Technical safety parameters: Notes B10g values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Switching capacity Maximum motor rating Single-phase 120 V AC 120 V AC HP 3 240 V AC HP 7.5 HP 10	Solid or stranded		mm ²	1 x (2,5 - 35) 2 x (2,5 - 16)
Terminal screw Teghnical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Switching capacity Maximum motor rating Single-phase 120 V AC 1240 V AC RP 120 V AC 140 V AC 150 V AC 160 V 160 V 170 V AC 170 V AC 180 V AC	Flexible with ferrules to DIN 46228		mm ²	
Tightening torque for terminal screw Technical safety parameters: Notes B10 _d values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use A 63 Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC HP 7.5 240 V AC HP 7.5				2 x (1.5 - 10)
Technical safety parameters: Notes B10 _d values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use A 63 Switching capacity Maximum motor rating Single-phase 120 V AC 120 V AC HP 3 200 V AC 4HP 7.5 4HP 7.5	Terminal screw			M6
Notes B10d values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts V AC Rated operational voltage Ue V AC 600 Rated uninterrupted current max. A 63 General use A 63 Switching capacity A 63 Maximum motor rating Single-phase HP 3 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10			Nm	4
Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Switching capacity Maximum motor rating Single-phase 120 V AC 120 V AC HP 7.5 240 V AC HP 10				
Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use A 63 Switching capacity Maximum motor rating Single-phase 120 V AC 120 V AC 140				B10 _d values as per EN ISU 13849-1, table C1
Rated operational voltage Rated uninterrupted current max. Main conducting paths General use A 63 Switching capacity Maximum motor rating Single-phase 120 V AC HP 3 200 V AC HP 7.5 240 V AC				
Rated uninterrupted current max. Main conducting paths General use A 63 Switching capacity Maximum motor rating Single-phase 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10		П	V AC	600
Main conducting paths A 63 Switching capacity B C Maximum motor rating C C Single-phase B C 120 V AC BP 3 200 V AC BP 7.5 240 V AC BP 10		Ue	v AU	000
General use A 63 Switching capacity Image: Control of the point				
Switching capacity Image: Comparison of the comparison o				
Maximum motor rating Single-phase 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10			А	63
Single-phase HP 3 120 V AC HP 7.5 240 V AC HP 10				
120 V AC	-			
200 V AC				
240 V AC HP 10				
Three-phase			HP	10
	Three-phase			

200 V AC	HP	15
240 V AC	HP	15
480 V AC	HP	40
600 V AC	HP	40
Short Circuit Current Rating	SCCR	
High fault rating	kA	10
max. Fuse	А	100, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	12 - 4
Terminal screw		M6
Tightening torque	lb-in	35.4

Design verification as per IEC/EN 61439

Design vermeation as per 120/214 01703			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
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.
10.2.3.3 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])

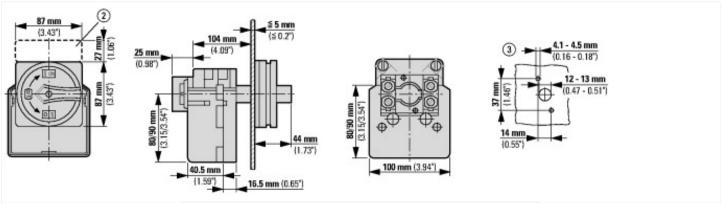
Version as main switch	Yes
Version as maintenance-/service switch	Yes

Version as safety switch		No
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	63
Rated permanent current at AC-23, 400 V	Α	63
Rated permanent current at AC-21, 400 V	А	63
Rated operation power at AC-3, 400 V	kW	22
Rated short-time withstand current lcw	kA	1.3
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	2
Number of poles		8
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		No
Suitable for front mounting centre		Yes
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)		12

Approvals

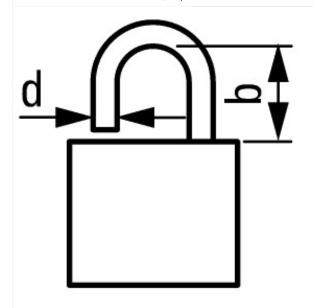
• •	
Product Standards	UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



- ② ZFS-... Label mount not included as standard
- ③ Drilling dimensions door

Cam switches T5B and T5 are same size, only their contacts are different



d = 4 - 8 mm $b + d \le 47 mm$ d = 0.16 - 0.31 $b + d \le 1.85$

≦ 3 padlocks

Assets (links)

Declaration of CE Conformity

00003073

Instruction Leaflets

IL03801009Z2018_05

Additional product information (links)

IL03801009Z (AWA1150-1692) Cam switch: switch-disconnector		
IL03801009Z (AWA1150-1692) Cam switch: switch-disconnector	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2018_05.pdf	
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=130	
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/DOCUMENTATION/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	