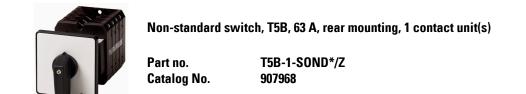
DATASHEET - T5B-1-SOND*/Z





Delivery program

Product range			Non-standard switch
Part group reference			T5B
Notes			customized version according to form
Degree of Protection			Front IP65
Design			rear mounting
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	30
Rated uninterrupted current	l _u	А	63
Note on rated uninterrupted current ${\boldsymbol{!}}_u$			Rated uninterrupted current \boldsymbol{I}_{u} is specified for max. cross-section.
Number of contact units		contact unit(s)	1

Technical data

Note of the second se	General			
Anionic description Anionic description Anionic description Anionic description Anionic description Anionic description %	Standards			
Open C Spended	Climatic proofing			
Eclosed222EclosedVarue230Nature inputs withstand voltageVarueVarue300Nature inputs withstand voltageVarue30300Nature inputs withstand voltageVarue30300Nature inputs withstand voltageVarue300300Nature inputs with voltageVarue300300Rated uninterrupted current 1Varue300300Nature inputs with intermittent operation, class 12Varue300AB 26% DFVarueVarue300AB 40% DFVarue400300AB 40% DFVarue400300Noto current 1Varue400300Noto current 1Varue300300Noto current 1Varue100300Noto current 1Varue100300Noto current 1Varue100300Noto current 10Varue100300Noto current 10Varue100<	Ambient temperature			
New York Notes Notes Aver Vaca Yapp VAC 900 Aver Vaca Sold Sold Sold Match in pulse with stand voltage Yapp VAC Sold	Open		°C	-25 - +50
Act of upulse withstand voltage VAC 600 Mechanical shock resistance g	Enclosed		°C	-25 - +40
Mechanical shock resistance Mechanical shock resistance <t< td=""><td>Overvoltage category/pollution degree</td><td></td><td></td><td>111/3</td></t<>	Overvoltage category/pollution degree			111/3
Note on rated operational voltage Are required Rated operational voltage Image: Sector Sect	Rated impulse withstand voltage	U _{imp}	V AC	6000
Contacts Sector of the sec	Mechanical shock resistance		g	15
letrical characteristics Image: Constraint of the second seco	Mounting position			As required
Rated operational voltage Ue VAC 6000000000000000000000000000000000000	Contacts			
Rated uninterrupted current 1 Load ratin with interrupted current 1 Load ratin with interr	Electrical characteristics			
Note on rated uninterrupted current lu Amount of the specified for max. cross-section. Note on rated uninterrupted current lu Specified for max. cross-section. AB 25% DF Image: Specified for max. cross-section. AB 40% DF Image: Specified for max. cross-section. AB 60% DF Image: Specified for max. cross-section. AB 60% DF Image: Specified for max. cross-section. Fuse Image: Specified for max. cross-section. Fuse Image: Specified for max. cross-section. Rated short-time withstand current los current los control Image: Specified for max. cross-section. Note on rated short-time withstand current los current los control Image: Specified for max. cross-section. Rated conditional short-circuit current los control Image: Specified for max. cross-section. Specified control Image: Specified for max. cross-section. Rated short-time withstand current los control Image: Specified for max. cross-section. Rated conditional short-circuit current los control Image: Specified for max. cross-section. Specified control Image: Specified for max. cross-section. Specified control Image: Specified for max. cross-section. Specified control Image: Specified for max.	Rated operational voltage	U _e	V AC	690
Load rating with intermittent operation, class 12 and the second	Rated uninterrupted current	l _u	Α	63
AB 25 % DF x le 2 AB 40 % DF x le 16 AB 60 % DF x le 1.3 Short-circuit rating x le 3.4 Fuse A gG/gL 2 Rated short-time withstand current (1s current) Icw Arms 300 Rated conditional short-circuit current Iq Ka Arms Rated conditional short-circuit current Iq Ka 300	Note on rated uninterrupted current $!_{\rm u}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section.
AB 40 % DF x le 1.6 AB 60 % DF x le 1.6 AB 60 % DF x le 1.6 Short-circuit rating x le 1.6 Fuse A gG/gL A gG/gL Rated short-time withstand current (1 s current) Image: A gG/gL 3.00 Note on rated short-time withstand current (2 s current) Image: A gG/gL 3.00 Rated conditional short-circuit current Image: A gG/gL Current for a time of 1 second Rated conditional short-circuit current Image: A gG/gL Sold	Load rating with intermittent operation, class 12			
AB 60 % DFx le13Short-circuit rating	AB 25 % DF		x I _e	2
Short-circuit rating A gG/gL Fuse A gG/gL Rated short-time withstand current (1s current) Icw Note on rated short-time withstand current lcw Igq Rated conditional short-circuit current Iq Korteching capacity Icm	AB 40 % DF		x le	1.6
FuseA gG/zA gG/z<	AB 60 % DF		x I _e	1.3
Rated short-time withstand current (1 s current) Icw Arms 1300 Note on rated short-time withstand current lcw Icw Icw Icw Rated conditional short-circuit current Iq KA Icw Switching capacity Score or rated making capacity as per IEC 60947-3 Icw Icw	Short-circuit rating			
Note on rated short-time withstand current low Image: Current for a time of 1 second Rated conditional short-circuit current Iq kA 2 Switching capacity So a rated making capacity as per IEC 60947-3 Image: Current for a time of 1 second Image: Current for a time of 1 second	Fuse		A gG/gL	80
Rated conditional short-circuit current lq kA 2 Switching capacity cos φ rated making capacity as per IEC 60947-3 A A 800	Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1300
Switching capacity cos φ rated making capacity as per IEC 60947-3 A A	Note on rated short-time withstand current lcw			Current for a time of 1 second
cos φ rated making capacity as per IEC 60947-3 A 800	Rated conditional short-circuit current	Iq	kA	2
	Switching capacity			
Stated breaking capacity cos of to JEC 60947-3	$\cos\phi$ rated making capacity as per IEC 60947-3		А	800
	Rated breaking capacity $\cos\phi$ to IEC 60947-3		А	

230 V		А	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 l _e		W	4.5
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)			4.5
	0 ii	CO	
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	15
230 V Star-delta	Р	kW	18.5
400 V 415 V	Р	kW	22
400 V Star-delta	Р	kW	30
500 V	Р	kW	22
500 V Star-delta	Р	kW	37
690 V	Р	kW	15
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	le	A	51
230 V star-delta	l _e	А	63
400V 415 V	I _e	А	41
400 V star-delta	l _e	А	63
500 V	I _e	A	33
500 V star-delta	le	A	57.2
690 V	l _e	A	17
690 V star-delta	l _e	A	29.4
AC-23A	U C		
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	P	kW	18.5
400 V 415 V	P	kW	30
500 V	P	kW	22
690 V	P	kW	22
Rated operational current motor load switch	•		
230 V	1	A	63
400 V 415 V	l _e		63
	l _e	A	
500 V	l _e	A	33
690 V	le	A	23.8
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	A	63
Voltage per contact pair in series		V	60
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	le	А	50
Contacts		Quantity	1
48 V			
Rated operational current	l _e	А	50
Contacts		Quantity	2
60 V			
Rated operational current	I _e	А	50

Contacts		Quantity	3
120 V			
Rated operational current	le	А	25
Contacts		Quantity	3
240 V			
Rated operational current	le	А	20
Contacts		Quantity	6
DC-13, Control switches L/R = 50 ms			
Rated operational current	l _e	А	25
Voltage per contact pair in series		V	24
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 (2,5 - 35) 2 x (2,5 - 16)
Flexible with ferrules to DIN 46228		mm ²	1 x (1 - 25) 2 x (1.5 - 10)
Terminal screw			M6
Tightening torque for terminal screw		Nm	4
Fechnical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Terminal capacity			

Design verification as per IEC/EN 61439

Design vernication as per 120/211 01755			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	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
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.

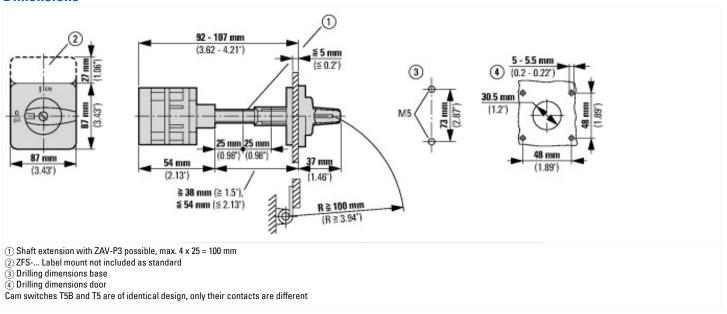
Technical data ETIM 7.0

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])

[AKF060013])		
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
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	63
Rated permanent current at AC-23, 400 V	А	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		0
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		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Colour control element		Black
Type of control element		Toggle
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		Other

Dimensions



Additional product information (links)

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