DATASHEET - T5B-3-2/E



Reversing switches, Contacts: 5, 63 A, front plate: 2-0-1, 45 °, maintained, flush mounting





Part no. T5B-3-2/E Catalog No. 092422

EL-Nummer (Norway) 0001456941

Similar to illustration

Delivery program Product range Part group reference Basic function			
Part group reference			0 . 1 . 1
			Control switches
Basic function			T5B
			Reversing switches
			with black thumb grip and front plate
Contacts			5
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			1 12 13 2 0 1 2 0 X X X X X X X X X X X X X X
Switching angle		0	45
Switching performance			maintained With 0 (Off) position
Design number			2
Front plate no.			FS 621
front plate			2-0-1
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	30
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current I_u is specified for max. cross-section.
Number of contact units		contact unit(s)	

Technical data

General

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			
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	lu	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
oad rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x l _e	1.3
Short-circuit rating			
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			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	2
Switching capacity	·		
cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	520
400/415 V		Α	600
500 V		Α	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
ifespan, 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	P	kW	30
500 V	P	kW	22
500 V Star-delta	P	kW	37
690 V	P	kW	15
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	I _e	Α	51
230 V star-delta	I _e	Α	63
400V 415 V	I _e	Α	41
400 V star-delta	I _e	Α	63
500 V	I _e	Α	33
500 V star-delta	I _e	Α	57.2
690 V			
	l _e	A	17
690 V star-delta	I _e	Α	29.4

Rated operational current switch			
440 V	I _e	Α	63
AC-23A	'e	^	
Motor rating AC-23A, 50 - 60 Hz	P	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	r	KVV	22
230 V		Α	63
	l _e		63
400 V 415 V	l _e	A	
500 V	l _e	Α	33
690 V	le	Α	23.8
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	le	Α	63
Voltage per contact pair in series		V	60
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	le	Α	50
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	50
Contacts		Quantity	2
60 V			
Rated operational current	I _e	Α	50
Contacts		Quantity	3
120 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	3
240 V			
Rated operational current	l _e	Α	20
Contacts		Quantity	6
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	Α	25
Voltage per contact pair in series	· ·	V	24
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
	probability	'	< 10 , < 1 fault in 100000 operations
Terminal capacities			. (0.7.0%)
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
Technical safety parameters:			PM
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types Contacts			
Rated operational voltage	U _e	V AC	600
	J _e	V AC	
Rated uninterrupted current max.			
Main conducting paths		۸	62
General use		Α	63
Switching capacity Maximum meter ration			
Maximum motor rating			
Single-phase			

High fault rating kA 10 max. Fuse A 100, Class J			
240 V AC HP 10 Three-phase	120 V AC	HP	3
Three-phase 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 A 100, Class J Terminal capacity AWG 12 - 4 Terminal screw M6 M6	200 V AC	HP	7.5
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 A 100, Class J Terminal capacity AWG 12 - 4 Solid or flexible conductor with ferrule AWG 12 - 4 Terminal screw M6	240 V AC	HP	10
240 V AC HP 15 480 V AC HP 40 600 V AC HP 40 Short Circuit Current Rating SCCR SCCR High fault rating kA 10 max. Fuse A 100, Class J Terminal capacity AWG 12 - 4 Terminal screw M6 M6	Three-phase		
HP 40 600 V AC HP 40 Short Circuit Current Rating SCCR High fault rating Max. Fuse Terminal capacity Solid or flexible conductor with ferrule Terminal screw HP 40 A 10 Class J A 100, Class J M6	200 V AC	HP	15
Figure 1 and	240 V AC	HP	15
Short Circuit Current Rating High fault rating max. Fuse A 10, Class J Terminal capacity Solid or flexible conductor with ferrule Terminal screw SCCR A 10, Class J AWG 12 - 4 M6	480 V AC	HP	40
High fault rating max. Fuse A 100, Class J Terminal capacity Solid or flexible conductor with ferrule Terminal screw KA 10 A 100, Class J Terminal capacity M6	600 V AC	HP	40
max. Fuse A 100, Class J Terminal capacity Solid or flexible conductor with ferrule AWG 12 - 4 Terminal screw M6	Short Circuit Current Rating	SCCR	
Terminal capacity Solid or flexible conductor with ferrule AWG 12 - 4 Terminal screw M6	High fault rating	kA	10
Solid or flexible conductor with ferrule AWG 12 - 4 Terminal screw M6	max. Fuse	Α	100, Class J
Terminal screw M6	Terminal capacity		
	Solid or flexible conductor with ferrule	AWG	12 - 4
Tightening torque Ib-in 35.4	Terminal screw		M6
	Tightening torque	lb-in	35.4

Design verification as per IEC/EN 61439

observed.	Technical data for design verification			
Equipment heat dissipation, current-dependent Ped W 0 Static heat dissipation, non-current dependent Pes W 0 Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. **C 2-25 Operating ambient temperature max. **C 50 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion or festiance 10.2.2 Strength of materials and parts 10.2.2 Verification of resistance of insulating materials to abnormal heat and fin deu to internal electric offects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fin deu to internal electric offects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Litting 10.2.6 Mechanical impact 10.2.7 Internitions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and cropage distances 10.5 Protection against electric shock 10.6 Recorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Incorporation of switching devices and components 10.9 Rever-frequency electric strength 10.9 Temperature rise 10.9 Power-frequency electric strength 10.1 Short-circuit rating 10.1 Short-circuit rating 10.1 Short-circuit rating 10.1 Short-circuit rating 10.10 Temperature rise 10.11 Short-circuit rating 10.10 Temperature rise 10.11 Short-circuit rating 10.10 Temperature rise 10.11 Short-circuit rating	Rated operational current for specified heat dissipation	In	Α	63
Static heat dissipation, non-current-dependent Heat dissipation capacity Palus W 0 Operating ambient temperature min. Operating ambient temperature max. **C **S Operating ambient temperature max. **Incompose the product standard's requirements. **Incompose the entire switchgear needs to be evaluated. **Incompose the enti	Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
Heat dissipation capacity Derating ambient temperature min. Operating ambient temperature max. ICC VS 59 ICC VS 50 I	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. Operating ambient temperature max. C 50 Deparating ambient temperature max. C 50 EC/EN 61436 design verification 10.2 Strength of materials and parts 10.2 Extrength of materials and parts 10.2 Extrength of materials and parts 10.2.2 Verification of thermal stability of enclosures 10.2.3.1 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions 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. Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Romections of existenal conductors 10.8 Connections for external conductors 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.9 Insurance of external conductors 10.9 Insurance of protection of external conductors 10.9 Insurance of protection of external conductors 10.9 Insurance of external conductors 10.9	Static heat dissipation, non-current-dependent	P _{vs}	W	0
CC S0	Heat dissipation capacity	P _{diss}	W	0
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	10.13 Mechanical function			

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

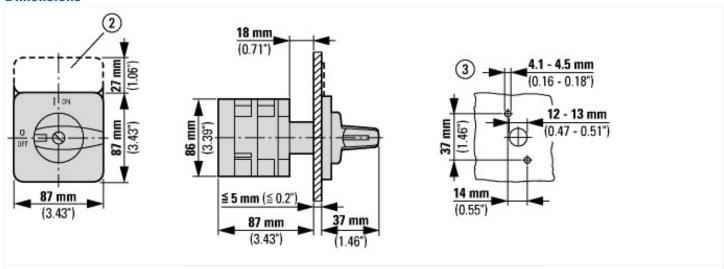
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

[AKI 002010])		
Model		Reversing switch
Number of poles		3
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	Α	63
Rated operation current le at AC-3, 400 V	Α	41
Rated operation power at AC-3, 400 V	kW	22
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		12
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
Suitable for ground mounting		No
Suitable for front mounting 4-hole		Yes
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Complete device in housing		No
Material housing		Plastic
Type of control element		Toggle
Type of electrical connection of main circuit		Screw connection

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.	3211-07
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 of identical design, only their contacts are different

Assets (links)

Declaration of CE Conformity 00003073

Instruction Leaflets

IL03801009Z2018_05