DATASHEET - T5B-3-8212/I4



Changeoverswitches, Contacts: 6, 63 A, front plate: 1-0-2, 60 $^{\circ}$, maintained, surface mounting

Powering Business Worldwide

T5B-3-8212/I4 Part no. Catalog No. 207223

EL-Nummer (Norway)

0001456949



Similar to illustration

Part group reference Basic function Contacts Degree of Protection Design Contacts sequence Contact sequence Contact sequence Contact sequence Switching angle Switching angle Switching angle Front plate no. Contact sequence FS 684 Fort plate no. Motor rating AC-23A, 50 - 60 Hz 400 V P NW AREd diminiterrupted current I _u Number of contact units Number of contact units Contact sequence T5B Changoverswitches with black thumb grip and front plate Explain the sequence Switching profused FS 684 Total plate no. Table No. Total plate no. Table uninterrupted current I _u is specified for max. cross-section. Number of contact units Number of contact units T5B Changoverswitches with black thumb grip and front plate FS 684 Total uninterrupted current I _u is specified for max. cross-section. Table uninterrupted current I _u is specified for max. cross-section.	Delivery program			
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Contacts Degree of Protection Design Contact sequence Contact sequence Switching angle Swi	Part group reference			T5B
Contacts Degree of Protection Design Design Contact sequence Contact sequence Contact sequence Switching angle Switching Performance Design number Front plate no. Front plate no. P	Basic function			Changeoverswitches
Degree of Protoction Design Contact sequence				with black thumb grip and front plate
Design Contact sequence Contact sequence Switching angle Switching performance Switching performance Contact sequence The sequence of th	Contacts			6
Design Contact sequence Contact sequence Switching angle Switching performance Switching performance With 0 (0ft) position Basign number Front plate no. FS 684 front plate Motor rating AC-23A, 50 - 60 Hz 400 V P	Degree of Protection			IP65
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Switching angle Switching performance Switching performance Pront plate no. FS 684 For the plate Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current I _u is specified for max. cross-section. Number of contact units Patch in the plate of contact units Rated uninterrupted current I _u is specified for max. cross-section.	Design			surface mounting
Switching angle Switching performance Switc				
Switching performance Design number Front plate no. ### A	Contact sequence			
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FS 684 front plate Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current Iu A 63 Note on rated uninterrupted current Iu Number of contact units Contact	Design number			8212
Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current Iu A 63 Note on rated uninterrupted current Iu Number of contact units contact 3	Front plate no.			FS 684
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 3	front plate			1-0-2
Rated uninterrupted current Iu A 63 Note on rated uninterrupted current Iu is specified for max. cross-section. Number of contact units contact 3	Motor rating AC-23A, 50 - 60 Hz			
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Note on rated uninterrupted current I _u is specified for max. cross-section. Number of contact units contact 3	Rated uninterrupted current	Iu	Α	63
Number of contact units contact 3	Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
			contact unit(s)	

Technical data

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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			
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	l _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _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	CVV	11118	Current for a time of 1 second
Rated conditional short-circuit current	l-	kA	2
Switching capacity	Iq	NA.	
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		Α	600
500 V		A	480
690 V		Α	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			
Dating materials of switch	D	LAA	
Rating, motor load switch	P	kW	15
220 V 230 V	Р	kW	15
220 V 230 V 230 V Star-delta	P P	kW kW	18.5
220 V 230 V 230 V Star-delta 400 V 415 V	P P P	kW kW kW	18.5 22
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta	P P P	kW kW kW	18.5 22 30
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V	P P P	kW kW kW kW	18.5 22 30 22
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V	P P P P	kW kW kW kW kW	18.5 22 30 22 37
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V	P P P P P	kW kW kW kW kW	18.5 22 30 22 37
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V	P P P P	kW kW kW kW kW	18.5 22 30 22 37
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta Rated operational current motor load switch	P P P P P	kW kW kW kW kW kW	18.5 22 30 22 37 15
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta Rated operational current motor load switch	P P P P P P I _e	kW kW kW kW kW kW	18.5 22 30 22 37 15 22 51
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta Rated operational current motor load switch 230 V 230 V star-delta	P P P P P	kW kW kW kW kW kW kW	18.5 22 30 22 37 15 22 51 63
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta Rated operational current motor load switch	P P P P P P I _e	kW kW kW kW kW kW	18.5 22 30 22 37 15 22 51
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta Rated operational current motor load switch 230 V 230 V star-delta	P P P P P I _e I _e	kW kW kW kW kW kW kW	18.5 22 30 22 37 15 22 51 63
220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta Rated operational current motor load switch 230 V 230 V star-delta 400V 415 V	P P P P P I _e I _e	kW kW kW kW kW A A A	18.5 22 30 22 37 15 22 51 63 41
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220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta Rated operational current motor load switch 230 V 230 V star-delta 400V 415 V 400 V star-delta 500 V	P P P P P I _e I _e I _e I _e	kW kW kW kW kW A A A A A A A	18.5 22 37 15 22 51 63 41 63 33 57.2

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	A	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			

120 V AC	HP	3
200 V AC	HP	7.5
240 V AC	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	Α	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

10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 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 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Incorporation of switching devices and components 10.5 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.1 Power-frequency electric strength 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9 Insulation properties 10.9.3 Impulse withstand voltage 10.11 Short-circuit rating 10.11 Short-circuit rating 10.11 Short-circuit rating 10.2 Strength of materials and parts Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. 10.9 Insulation properties 10.9.2 Power-frequency electric strength 1 Is the panel builder's responsibility. 10.9.1 Temperature rise 1 Is the panel builder's responsibility. 10.10 Temperature rise 1 Is the panel builder's responsibility. 10.11 Short-circuit rating	Technical data for design verification			
Equipment heat dissipation, current-dependent P _{ris} W 0 Static heat dissipation, non-current dependent P _{ris} W 0 Heat dissipation, non-current dependent P _{ris} W 0 Operating ambient temperature min. Operating ambient temperature min. Operating ambient temperature min. 102 Strength of materiels and ports 103 Degree of production of ASSEMBLES 104 Clearances and creepage distances 105 Protection against electric shock 106 Incorporation of switching devices and components 107 Internal electrical circuits and connections 108 Incorporation of switching devices and components 109 Experiments and ports 109 Strength of materiels 109 Strength of	Rated operational current for specified heat dissipation	In	Α	63
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Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. EECR 16139 design verification 10.2 Strongth of materials and parts 10.2.2 Torrosion resistance 10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire deu to internal electric effects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire deu to internal electric effects 10.2.4 Resistance to ultra-violat (UV) radiation 10.2.5 Lifting 10.2.5 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Operate of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Internal electrical circuits and connections 10.5 Internal electrical circuits and connections 10.5 Internal electrical circuits and connections 10.5 Inscriptions 10.5 Inscriptions 10.6 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.11 Short-circuit rating 10.11 Short-circuit rating 10.13 Mechanical function 10.13 Mechanical function 10.14 Electromagnetic compability 10.15 Electromagnetic compability 10.16 Electromagnetic compability 10.17 Electromagnetic compability 10.18 Short-circuit rating 10.19 Mechanical function 10.10 Mechanical function 10.10 Mechanical function 10.11 Short-circuit rating 10.12 Electromagnetic compability 10.13 Mechanical function	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. Operating ambient temperature max. CC 40 ECFEN 61439 design verification 10.2 Strength of materials and parts 10.22 Everification of thermal stability of enclosures 10.23.1 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.23.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.23.5 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.24 Resistance to ultra-violet (UV) rediation 10.25 Lifting 10.26 Mochanical impact 10.27 Inscriptions 10.30 agree of protection of ASSEMBLIES 10.40 Clearances and creepage distances Meets the product standard's requirements. Meets the product standard's requirements. 10.40 Bose not apply, since the entire switchgear needs to be evaluated. 10.40 Clearances and creepage distances Meets the product standard's requirements. 10.50 Protection against electric shock 10.50 Protection against electric shock 10.50 Protection against electric shock 10.51 Incorporation of switching devices and components 10.52 Protection against electric shock 10.53 Incorporation of switching devices and components 10.54 Protection against electric strength 10.55 Protection against electric strength 10.56 Connections for external conductors 10.57 Incorporation of switching devices and components 10.59 Insulation properties 10.50 Internal electrical circuits and connections 10.50 Internal electric alectric strength 10.51 Internal electric alectric strength 10.52 Connections for external conductors 10.53 Insulation properties 10.54 Testing of enclosures made of insulating material 10.55 Internal electric strength 10.55 Internal electric strength 10.56 Internal electric strength 10.57 Internal electric strength 10.58 Internal electric strength 10.59 Insulation properties 10.50 Internal electric strength 10.50 Internal electric strength 10.50 Internal ele	Static heat dissipation, non-current-dependent	P _{vs}	W	0
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10.2.3.3 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. 10.2.6 Mechanical impact 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. 10.9 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. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. The panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility The device meets the requirements, provided the information in the instruction	10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
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	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
	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 switc [AKF062013])	ch technology / Of	ff-load sw	ritch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05
Model			Reverser
Number of poles			3
With 0 (off) position			Yes
With retraction in 0-position			No
Rated permanent current lu	A	A	63
Rated operation current le at AC-3, 400 V	Į.	A	41
Rated operation power at AC-3, 400 V	k	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			Yes
Suitable for front mounting 4-hole			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Complete device in housing			Yes
Material housing			Plastic
Type of control element			Toggle

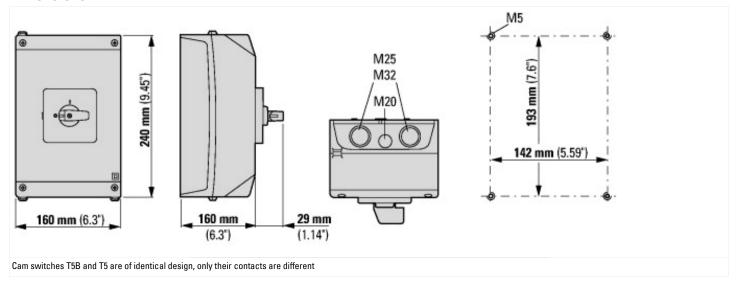
Approvals

Type of electrical connection of main circuit

UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
E36332
NLRV
12528
3211-05
UL listed, CSA certified
Yes, additional labeling according to UL on the enclosure in combination with "+NA- 14" (105868)
Branch circuits, suitable as motor disconnect
IEC: IP65; UL/CSA Type 1, 12

Screw connection

Dimensions



Assets (links)

Declaration of CE Conformity 00003073

Instruction Leaflets

IL03801009Z2018_05