DATASHEET - T5B-3-8222/I4



Changeoverswitches, Contacts: 6, 63 A, front plate: 1-2, 90 $^{\circ}$, maintained, surface mounting



T5B-3-8222/I4 Part no. Catalog No. 207224

EL-Nummer (Norway)

0001456957



Similar to illustration

Delivery program			
Product range			Control switches
Part group reference			T5B
Basic function			Changeoverswitches
			with black thumb grip and front plate
Contacts			6
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			- × × × × × × ×
Switching angle		0	90
Switching performance			maintained Without 0 (Off) position
Design number			8222
Front plate no.			1 2 FS 943
front plate			1-2
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	30
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $I_{\rm u}$ is specified for max. cross-section.
Number of contact units		contact unit(s)	

Technical data General

deliefal	
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		C	111/3
Rated impulse withstand voltage	11.	V AC	6000
Mechanical shock resistance	U _{imp}		15
Mounting position		g	As required
Contacts			As required
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	A	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 I _e	1.6
AB 60 % DF		x l _e	1.3
Short-circuit rating		^ 'e	1.0
Fuse		A gG/gL	20
Rated short-time withstand current (1 s current)	1		1300
· · ·	I _{cw}	A _{rms}	Current for a time of 1 second
Note on rated short-time withstand current lcw Rated conditional short-circuit current		kΛ	
Switching capacity	Iq	kA	2
cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		A	
230 V		A	520
400/415 V		A	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
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h	X 10	1200
AC	Operations/ii		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			
230 V	I _e	Α	51
230 V star-delta	l _e	A	63
400V 415 V	l _e	A	41
400 V star-delta		A	63
400 V Star-derta	l _e		
	l _e	A	33
500 V star-delta	l _e	A	57.2
690 V	I _e	Α	17
690 V star-delta	le	Α	29.4
AC-21A			
Rated operational current switch			

440 V	1	٨	63
	l _e	Α	63
AC-23A	_		
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	18.5
400 V 415 V	Р	kW	30
500 V	P	kW	22
690 V	Р	kW	22
Rated operational current motor load switch		_	
230 V	l _e	Α	63
400 V 415 V	l _e	Α	63
500 V	l _e	Α	33
690 V	l _e	Α	23.8
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	63
Voltage per contact pair in series		٧	60
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	Α	50
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	50
Contacts		Quantity	2
60 V			
Rated operational current	l _e	Α	50
Contacts	ŭ	Quantity	3
120 V		,	
Rated operational current	I _e	A	25
Contacts	C	Quantity	
240 V		Zuumary	
Rated operational current	I _e	A	20
Contacts	-6	Quantity	
DC-13, Control switches L/R = 50 ms		Quantity	
Rated operational current	l _e	A	25
	'e	V	24
Voltage per contact pair in series	Facult		
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
Terminal capacities			
Solid or stranded		mm^2	1 x (2,5 - 35) 2 x (2,5 - 16)
Flexible with ferrules to DIN 46228		2	1 x (1 - 25)
TOARDO WITH TOTALIOS TO DITY TOZZO		mm ²	2 x (1.5 - 10)
Terminal screw			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			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use		Α	63
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		НР	3

200 V AC	НР	7.5
240 V AC	НР	10
Three-phase		
200 V AC	НР	15
240 V AC	HP	15
480 V AC	НР	40
600 V AC	НР	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

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	40
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) / Off-load switch (EC001105)

Electric engineering, automation, process control engineering / Low-voltage switch ter [AKF062013])	chnology / Off-load sw	vitch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05
Model		Reverser
Number of poles		3
With 0 (off) position		No
With retraction in 0-position		No
Rated permanent current lu	А	63
Rated operation current le at AC-3, 400 V	А	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		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

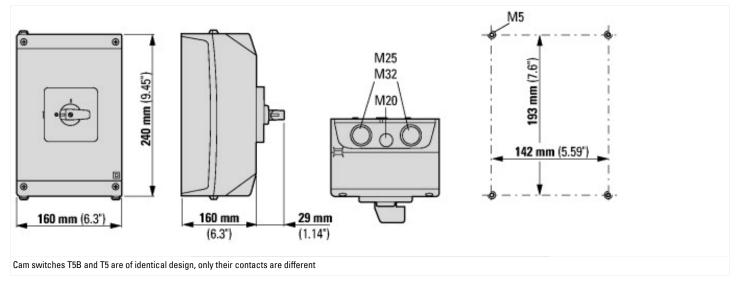
Approvals

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

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