DATASHEET - T0-1-8/EZ



ON-OFF button, T0, 20 A, centre mounting, 1 contact unit(s), Contacts: 2, 45 °, momentary, With 0 (Off) position, with spring-return from both directions, 0 >< 1, design no. 8



Part no.

Catalog No.

T0-1-8/EZ 009384

Similar to illustration

Delivery program Control switches Product range то Part group reference **Basic function ON-OFF** button with black thumb grip and front plate 2 Contacts **Degree of Protection** Front IP65 Design centre mounting Contact sequence XX Switching angle 0 45 Switching performance momentary With 0 (Off) position with spring-return from both directions Design number 8 Front plate no. FS 456 0 >< 1 front plate Motor rating AC-23A, 50 - 60 Hz Ρ 400 V kW 5.5 Ιu 20 Rated uninterrupted current А Rated uninterrupted current Iu is specified for max. cross-section. Note on rated uninterrupted current !... Number of contact units contact 1 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	٦°	-25 - +40

Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance	- mp		15
Mounting position		g	As required
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	lu	A	20
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			
Fuse		A gG/gL	
Rated short-time withstand current (1 s current)	l _{cw}	A _{rms}	320
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	6
Switching capacity		٨	120
cos φ rated making capacity as per IEC 60947-3		A A	130
Rated breaking capacity cos φ to IEC 60947-3 230 V			100
400/415 V		A	
500 V		A A	110 80
690 V		A	60
Safe isolation to EN 61140		A	
between the contacts		V AC	440
		W	
Current heat loss per contact at le			0.6
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	0.6
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	3
230 V Star-delta	Р	kW	5.5
400 V 415 V	Р	kW	5.5
400 V Star-delta	Ρ	kW	7.5
500 V	Ρ	kW	5.5
500 V Star-delta	Р	kW	7.5
690 V	Р	kW	4
690 V Star-delta	Ρ	kW	5.5
Rated operational current motor load switch			
230 V	l _e	A	11.5
230 V star-delta	le	Α	20
400V 415 V	le	А	11.5
400 V star-delta	I _e	А	20
500 V	l _e	А	9
500 V star-delta	le	A	15.6
690 V	l _e	A	4.9
690 V star-delta	l _e	A	8.5
AC-23A	C .		
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	P	kW	3
200 -	•		-

400 V 415 V	Р	kW	5.5
500 V	Р	kW	7.5
690 V	Р	kW	5.5
Rated operational current motor load switch			
230 V	۱ _e	A	13.3
400 V 415 V	le	А	13.3
500 V	l _e	А	13.3
690 V	I _e	А	7.6
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	A	10
Voltage per contact pair in series		V	60
DC-21A	I _e	A	
Rated operational current	l _e	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	A	10
Contacts		Quantity	1
48 V			
Rated operational current	l _e	A	10
Contacts		Quantity	2
60 V			
Rated operational current	l _e	A	10
Contacts	•	Quantity	3
120 V			
Rated operational current	le	A	5
Contacts		Quantity	
240 V		,	
Rated operational current	I _e	A	5
Contacts	U III	Quantity	
DC-13, Control switches L/R = 50 ms		addinity	
Rated operational current	l _e	A	10
Voltage per contact pair in series	0	v	32
Control circuit reliability at 24 V DC, 10 mA	Fault	Н _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
	probability		< ru ,< r randre in ruo,000 switching operations
Terminal capacities		-	
Solid or stranded		mm ²	1 x (1 - 2,5) 2 x (1 - 2,5)
Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 2.5)
			2 x (0.75 - 2.5)
Terminal screw			M3.5
Tightening torque for terminal screw		Nm	1
Technical safety parameters: Notes			$B10_d$ values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	Ue	V AC	600
Rated uninterrupted current max.	-		
Main conducting paths			
General use		A	16
Auxiliary contacts			
General Use	۱ _Ս	A	10
Pilot Duty	5		A 600
			P 300
Switching capacity			

Maximum motor rating			
Single-phase			
120 V AC	Н	IP	0.5
200 V AC	Н	IP	1
240 V AC	Н	IP	1.5
Three-phase			
200 V AC	Н	IP	3
240 V AC	н	IP	3
480 V AC	н	IP	7.5
600 V AC	Н	IP	7.5
Short Circuit Current Rating	S	CCR	
Basic Rating	k/	A	5
max. Fuse	A	•	50
High fault rating	k/	A	10
max. Fuse	A	1	20, Class J
Terminal capacity			
Solid or flexible conductor with ferrule	A	WG	18 - 14
Terminal screw			M3.5
Tightening torque	Ib	o-in	8.8

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
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.

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) / Control switch (EC002611)

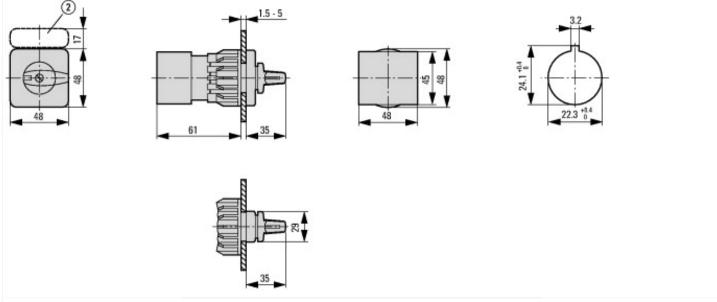
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

	On/Off switch
	1
V	690
А	20
	2
	Yes
	No
	Built-in device
	0
	No
	Yes
	No
	No
	No
	Toggle
	48x48 mm
	IP65
	12
	VA

Approvals

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
Branch circuits, suitable as motor disconnect
IEC: IP65; UL/CSA Type 1, 12

Dimensions



(2) ZFS-... Label mount not included as standard