DATASHEET - T0-1-15431/XZ



Contacts: 2, 20 A, 45 °, rear mounting, Basic switch



Part no. T0-1-15431/XZ Catalog No. 005738

EL-Nummer (Norway)

0001456662

Similar to illustration

Delivery program Product range Control switches T0 Part group reference Contacts 2 Design rear mounting Basic switch Contact sequence AUTO HAND Switching angle 15431 Design number Front plate no. AUTO FS 1401 Motor rating AC-23A, 50 - 60 Hz Р kW 5.5 Rated uninterrupted current Α 20 Note on rated uninterrupted current $!_{u}$ Rated uninterrupted current $I_{\rm u}$ is specified for max. cross-section. Number of contact units contact 1

Technical data

Note on rated uninterrupted current $!_u$ Load rating with intermittent operation, class 12

General

delierai			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 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	20

unit(s)

Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.

	x l _e	2
	ΧIα	
		1.6
	x I _e	1.3
	A gG/gL	20
I _{cw}	A _{rms}	320
		Current for a time of 1 second
Iq	kA	6
	Α	130
	Α	
	Α	100
	Α	110
	Α	80
	Α	60
	V AC	440
	W	0.6
	CO	0.6
Operations	x 10 ⁶	> 0.4
Operations/h		1200
Р	kW	
Р	kW	3
Р	kW	5.5
Р	kW	5.5
Р	kW	7.5
Р	kW	5.5
Р	kW	7.5
Р	kW	4
Р	kW	5.5
l _e	Α	11.5
	Α	20
		11.5
		20
		9
		15.6
l _e	Α	4.9
l _e	Α	8.5
Р	kW	
Р	kW	3
Р	kW	5.5
Р	kW	7.5
Р	kW	5.5
I _e	Α	13.3
I _e	Α	13.3
I _e	Α	13.3
I _e	Α	7.6
	Iq I	Icw Arms Iq kA A A A A A A A A A A A W CO W Operations X 106 Operations/h W P kW P A Ie A <

Rated operational current	I _e	Α	10
Voltage per contact pair in series		٧	60
DC-21A	I _e	Α	
Rated operational current	I _e	Α	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	Α	10
Contacts		Quantity	1
48 V			
Rated operational current	I _e	Α	10
Contacts		Quantity	2
60 V			
Rated operational current	I _e	Α	10
Contacts		Quantity	3
120 V			
Rated operational current	I _e	Α	5
Contacts		Quantity	3
240 V			
Rated operational current	I _e	Α	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	Α	10
Voltage per contact pair in series		٧	32
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 (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			
Terminal capacity			
Terminal screw			M3.5

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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.
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) / 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])

[10.100001.1]/		
Type of switch		Reverser
Number of poles		1
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	А	20
Number of switch positions		2
With 0 (off) position		Yes
With retraction in 0-position		No
Device construction		Built-in device
Width in number of modular spacings		0
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Complete device in housing		No
Type of control element		Toggle
Front shield size		48x48 mm
Degree of protection (IP), front side		IP00
Degree of protection (NEMA), front side		Other