DATASHEET - T0-1-15401/Z



ON-OFF switches, T0, 20 A, rear mounting, 1 contact unit(s), Contacts: 1, 45 °, maintained, With 0 (Off) position, 0-1, design no. 15401



Part no. T0-1-15401/Z Catalog No. 048346

EL-Nummer (Norway)

0001417051

Similar to illustration

Product range Part group reference Basic function Contracts Contracts Contracts Design Contracts sequence Contract sequence Contract sequence Contract sequence " 45 maintained With 01 091 position FS 415 Fortification FS 415 Fortification Contracts acquence Contract sequence " 45 maintained With 01 091 position FS 415 FS 415 FRont plate no. Motor rating AC-23A, 50 - 60 Hz 400 V P kW 5.5 Reted uninterrupted current I ₁ is specified for max. cross-section. Number of contract units Number of contract units Contract 1	Delivery program			
Part group reference Basic function Contacts Contacts Degree of Protection Contacts Contact sequence As 6 maintained With 10(01) position 15401 From plate no. From plate no. Contact sequence Contact sequence As 6 maintained With 10(01) position Contact sequence Contact sequence As 5 As 415 Rest duninterrupted current I, is specified for max cross-section. Number of contact units Contact uniterrupted current I, is specified for max cross-section. Number of contact units Contact uniterrupted current I, is specified for max cross-section.	Productrange			Control switches
Contacts Contacts Contacts Contact sequence	Part group reference			ТО
Contacts Degree of Protection Design Contact sequence Contact sequence Switching angle * 45 maintained With 0 (0ff) position 15401 Front plate Motor rating AC-23A, 50 - 60 Hz 400 V P KW 55 Rated uninterrupted current I _u is specified for mox. cross-section. When or rated uninterrupted current I _u is specified for mox. cross-section.	Basic function			ON-OFF switches
Degree of Protection Design Front IP6S rear mounting Toal mounting Contact sequence Contact sequence Switching angle Switching angle Switching angle Switching angle The sequence of Protection The sequence of Protecti				with black thumb grip and front plate
Pasign Contact sequence Contact sequence Switching angle Switching performance Design number Front plate no. Front plate no. Motor rating AC-23A, 50 - 60 Hz 400 V P W 5.5 Rated uninterrupted current I _u is specified for max. cross-section. Withouse of contact units Rated uninterrupted current I _u is specified for max. cross-section.	Contacts			1
Contact sequence Switching angle Switching performance Perform plate no. Front plate Motor rating AC-23A, 50 - 60 Hz 400 V P NA 400	Degree of Protection			Front IP65
Switching angle Switching performance Switching performance Contact Interrupted current I _u is specified for max. cross-section. Contact II I Switching angle 45 45 46 maintained With 0 (Off) position 15401 FS 415 FS 415 FS 415 O-1 Rated uninterrupted current I _u is specified for max. cross-section.	Design			rear mounting
Switching angle Switching performance Switching performance Contact Interrupted current I _u is specified for max. cross-section. Contact II I Switching angle 45 45 46 maintained With 0 (Off) position 15401 FS 415 FS 415 FS 415 O-1 Rated uninterrupted current I _u is specified for max. cross-section.				
Switching angle Switching performance Switching performance Pront plate no. Front plate Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current Volume or rated uninterrupted current I _u Number of contact units Part Motor rated uninterrupted current I _u is specified for max. cross-section.	Contact sequence			0
Switching performance Design number Front plate no. Front plate no. Front plate no. Front plate Front p	Switching angle		0	7 7
With 0 (Off) position 15401 Front plate no. Front plate no. Front plate Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current Volumber of contact units With 0 (Off) position 15401 FS 415 Note on rated uninterrupted current I _u is specified for max. cross-section.				
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Note on rated uninterrupted current I _u is specified for max. cross-section. Number of contact units contact				
Number of contact units contact 1		'u	^	
uniqoj	Number of contact units		contact unit(s)	

Technical data General

donorui	
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	I _u	Α	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 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	20
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Note on rated short-time withstand current lcw	-cvv	- 11113	Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	6
Switching capacity	·ų		
cos φ rated making capacity as per IEC 60947-3		Α	130
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	100
400/415 V		Α	110
500 V		Α	80
690 V		Α	60
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	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	X 10	1200
AC	Operations/ii		1200
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	3
230 V Star-delta	P	kW	5.5
400 V 415 V	P	kW	5.5
400 V Star-delta	P	kW	7.5
500 V	P	kW	5.5
500 V Star-delta	P	kW	7.5
690 V	P	kW	4
690 V Star-delta	P	kW	5.5
Rated operational current motor load switch		K V V	
230 V	l.	A	11.5
230 V 230 V star-delta	I _e		
	l _e	A	20
400V 415 V	l _e	A	11.5
400 V star-delta	l _e	Α	20
500 V	l _e	Α	9
500 V star-delta	I _e	Α	15.6

690 V star-delta	l _e	Α	8.5
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	3
400 V 415 V	Р	kW	5.5
500 V	P	kW	7.5
690 V	Р	kW	5.5
Rated operational current motor load switch			
230 V	l _e	Α	13.3
400 V 415 V	Ie	Α	13.3
500 V	Ie	Α	13.3
690 V	I _e	Α	7.6
DC	•		
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	10
Voltage per contact pair in series		V	60
DC-21A	Ie	Α	
Rated operational current	I _e	Α	1
Contacts	Ü		1
		Quantity	'
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	Α	10
Contacts		Quantity	1
48 V			
Rated operational current	I _e	Α	10
Contacts	•	Quantity	
		Quantity	2
60 V			
Rated operational current	l _e	Α	10
Contacts		Quantity	3
120 V			
Rated operational current	I _e	Α	5
Contacts		Quantity	3
240 V		Quantity	
Rated operational current	le	Α	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	l _e	Α	10
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	
	probability	. 1	< 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)
Tempinal			
Terminal screw			M3.5
Tightening torque for terminal screw		Nm	1
Technical safety parameters:			D10
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	16
Auxiliary contacts			
Auxiliary contacts			

Design verification as per IEC/EN 61439

Design vernication as per IEG/EN 01439			
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
C/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.
$10.2.3.3\mbox{Verification}$ 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)

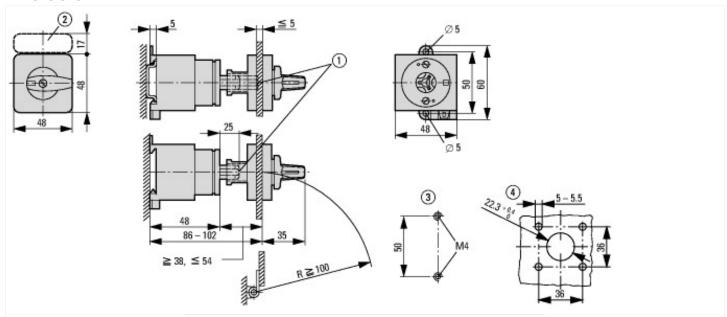
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

[AUN998011])		
Type of switch		On/Off switch
Number of poles		1
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	Α	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		IP65
Degree of protection (NEMA), front side		12

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.	3211-05
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, with an alternative front plate and/or terminal markings to those of the IEC type in combination with "+NA" (105864)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



- Shaft extension with ZAV-T0 possible, max. 4 x 25 = 100 mm
 ZFS-... Label mount not included as standard
 Drilling dimensions base
 Drilling dimensions door