DATASHEET - T3-2-15435/Z



Changeoverswitches, T3, 32 A, rear mounting, 2 contact unit(s), Contacts: 4, 45 $^{\circ}$, momentary/maintained, With 0 (Off) position, With spring-return to 0, HAND>0-AUTO, design no. 15435



T3-2-15435/Z Part no. Catalog No. 014406



Delivery program			
Product range			Control switches
Part group reference			Т3
Basic function			Changeoverswitches
			with black thumb grip and front plate
Contacts			4
Degree of Protection			Front IP65
Design			rear mounting
Contact sequence			AUTO HAND HAND HAND HAND HAND HAND HAND HAND
Switching angle		o	45
Switching performance			momentary/maintained With 0 (Off) position With spring-return to 0
Design number			15435
Front plate no.			FS 1414000
front plate			HAND>0-AUTO
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	15
Rated uninterrupted current	I _u	Α	32
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
Number of contact units		contact unit(s)	2

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		°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	Iu	Α	32
Note on rated uninterrupted current !u	u .		Rated uninterrupted current I_u is specified for max. cross-section.
Load rating with intermittent operation, class 12			Traced difficult rights operation for max. cross section.
AB 25 % DF		u I	
		x l _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	I _{cw}	A_{rms}	650
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	1
Switching capacity			
$\cos \phi$ rated making capacity as per IEC 60947-3		Α	320
Rated breaking capacity $\cos \phi$ to IEC 60947-3		Α	
230 V		Α	260
400/415 V		Α	260
500 V		Α	240
690 V		Α	170
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l _e		W	1.1
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	1.1
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	P	LAAZ	
220 V 230 V	P	kW	5.5
	P		
230 V Star-delta		kW	7.5
400 V 415 V	P	kW	11
400 V Star-delta	P	kW	15
500 V	P	kW	15
500 V Star-delta	P	kW	18.5
690 V	P	kW	11
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	l _e	Α	23.7
230 V star-delta	l _e	Α	32
400V 415 V	l _e	Α	23.7
400 V star-delta	le	Α	32
500 V	I _e	Α	23.7
500 V star-delta	I _e	Α	32
690 V	I _e	Α	14.7
690 V star-delta	I _e	A	25.5
AC-23A	'e	^	
	D	L\A/	
Motor rating AC-23A, 50 - 60 Hz	P	kW	7.5
230 V	P	kW	7.5
400 V 415 V	Р	kW	15
500 V	P	kW	15

690 V	Р	kW	15
Rated operational current motor load switch			
230 V	1	A	32
400 V 415 V	l _e		
	l _e	A	32
500 V	l _e	Α	26.4
690 V	le	Α	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	25
Voltage per contact pair in series		٧	60
DC-21A	I _e	Α	
Rated operational current	I _e	A	1
Contacts	· ·	Quantity	1
DC-23A, motor load switch L/R = 15 ms		Quantity	
24 V			
		A	25
Rated operational current	l _e		
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	2
60 V			
Rated operational current	I _e	Α	25
Contacts		Quantity	3
120 V			
Rated operational current	I _e	Α	12
Contacts	· ·	Quantity	3
240 V		Quantity	
Rated operational current		A	5
	l _e		
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	l _e	Α	20
Voltage per contact pair in series		V	24
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Terminal capacities	probability		
Solid or stranded		mm ²	1 x (1 - 6)
			2 x (1 - 6)
Flexible with ferrules to DIN 46228		mm^2	1 x (0.75 - 4)
			2 x (0.75 - 4)
Terminal screw			M4
Tightening torque for terminal screw		Nm	1.6
Technical safety parameters: Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			ייסן ישומט עם אָטוּ בוּז וּטט ויטטים־ו, נמטופ טו
Contacts			
Rated operational voltage	U _e	V AC	600
	O _e	• 40	
Rated uninterrupted current max.			
Main conducting paths			as .
General use		Α	25
Auxiliary contacts			
General Use	IU	Α	10
Pilot Duty			A 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		НР	1.5

200 V AC	HP	3
240 V AC	HP	3
Three-phase		
200 V AC	HP	3
240 V AC	HP	3
480 V AC	HP	7.5
600 V AC	HP	10
Short Circuit Current Rating	SCCR	
Basic Rating	kA	5
max. Fuse	А	40
High fault rating	kA	10
max. Fuse	А	40, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	14 - 10
Terminal screw		M4
Tightening torque	lb-in	17.7

Design verification as per IEC/EN 61439Technical data for design verification

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Heat dissipation per pole, current-dependent	P _{vid}	W	1.1
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 switch gear must b observed. $\label{eq:builder}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must b 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)

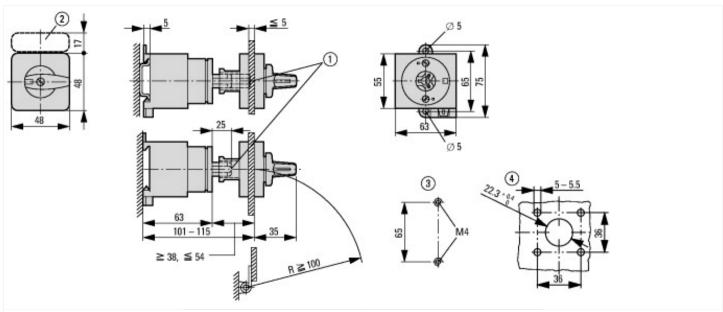
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

	Reverser
	2
V	690
Α	32
	3
	Yes
	Yes
	Built-in device
	0
	Yes
	No
	No
	Yes
	No
	Toggle
	48x48 mm
	IP65
	12

Approvals

7.66.010.0	
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
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