DATASHEET - T3-4-3/I2



Star-delta switches, Contacts: 8, 32 A, front plate: 0-Y-D, 60 °, maintained, surface mounting



 Part no.
 T3-4-3/12

 Catalog No.
 222906

r 0001456821

Delivery program

Product range			Control switches
Part group reference			T3
Basic function			Star-delta switches
			with black thumb grip and front plate
Contacts			8
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			
Switching angle		0	60
Switching performance			maintained With 0 (Off) position
Design number			3
Front plate no.			0 ↓ △ FS 635
front plate			0-Y-D
Motor rating AC-23A, 50 - 60 Hz			
400 V	Ρ	kW	15
Rated uninterrupted current	lu	А	32
Note on rated uninterrupted current !u			Rated uninterrupted current \mathbf{I}_{u} is specified for max. cross-section.
Number of contact units		contact unit(s)	4

Technical data General

Standards

Climatic proofing

IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3

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			111/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance		g	12
Mounting position			As required
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	lu	А	32
Note on rated uninterrupted current $\boldsymbol{!}_u$			Rated uninterrupted current $\boldsymbol{I}_{\boldsymbol{u}}$ 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 I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	l _{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		A	320
Rated breaking capacity cos φ to IEC 60947-3		A	
230 V		A	260
400/415 V		A	260
500 V 690 V		A A	240 170
Safe isolation to EN 61140		А	1/0
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
	Operations/h	x 10-	
Maximum operating frequency AC	Operations/II		1200
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	P	kW	5.5
230 V Star-delta	P	kW	7.5
400 V 415 V	P	kW	11
400 V Star-delta	P	kW	15
500 V	Р	kW	15
500 V Star-delta	Р	kW	18.5
690 V	Р	kW	11
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	l _e	A	23.7
230 V star-delta	l _e	A	32
400V 415 V	l _e	A	23.7
400 V star-delta	l _e	A	32
500 V	l _e	A	23.7
500 V star-delta	l _e	A	32
690 V	l _e	A	14.7
690 V star-delta	l _e	A	25.5
	6		

AC-21A			
Rated operational current switch			
440 V		A	32
	le	А	32
AC-23A Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	7.5
400 V 415 V	P	kW	15
500 V	P	kW	15
690 V	P	kW	15
Rated operational current motor load switch 230 V		^	32
	l _e	A	
400 V 415 V	l _e	A	32
500 V	le	A	26.4
690 V	l _e	А	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	Ι _e	Α	25
Voltage per contact pair in series		V	60
DC-21A	Ι _e	А	
Rated operational current	Ι _e	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	A	25
Contacts		Quantity	1
48 V			
Rated operational current	le	A	25
Contacts	-	Quantity	2
60 V		,	
Rated operational current	I _e	A	25
Contacts	6	Quantity	
120 V		Quantity	
Rated operational current	I _e	A	12
Contacts	·e	Quantity	
240 V		Quantity	
Rated operational current		A	5
	l _e		
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms		٨	20
Rated operational current	l _e	A	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 fault in 100000 operations
Terminal capacities			
Solid or stranded		mm ²	1 x (1 - 6)
Flavible with formulas to DIM 19999		0	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			
Contacts			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			

General use		А	25
		~	25
Auxiliary contacts			
General Use	lu	А	10
Pilot Duty			A 600 P 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	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 61439

Rated operational current for specified heat dissipation Image: Problement heat dissipation, current-dependent Perm Weil 1 Equipment heat dissipation, current-dependent Perm Weil 0 0 Static heat dissipation, current-dependent Perm Weil 0 0 Heat dissipation, non-current-dependent Perm Weil 0 0 Operating ambient temperature max. Perm C 25 0 Operating ambient temperature max. Perm C 25 0 <th></th> <th></th> <th></th> <th></th>				
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Heat dissipation capacity Person	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. C 25 Operating ambient temperature max. C 4 ID2 Strength of materials and parts Mets the product standard's requirements. 102.00000000000000000000000000000000000	Static heat dissipation, non-current-dependent	P _{vs}	W	0
Operation Control Contro Control <thcontrol< th=""> <t< td=""><td>Heat dissipation capacity</td><td>P_{diss}</td><td>W</td><td>0</td></t<></thcontrol<>	Heat dissipation capacity	P _{diss}	W	0
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10.9 Insulation properties Image: Constraint of the panel builder's responsibility. 10.9.2 Power-frequency electric strength Image: Constraint of the panel builder's responsibility. 10.9.3 Impulse withstand voltage Image: Constraint of the panel builder's responsibility.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
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10.9.3 Impulse withstand voltage	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.0.4 Testing of analoguese made of insulating material	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.3.4 resulting of enclosures made of insurating material	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

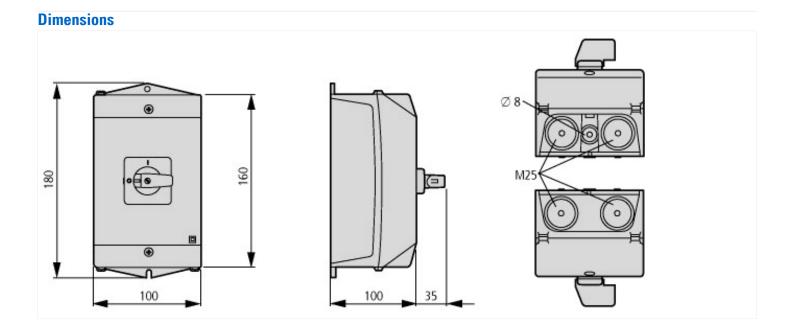
Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

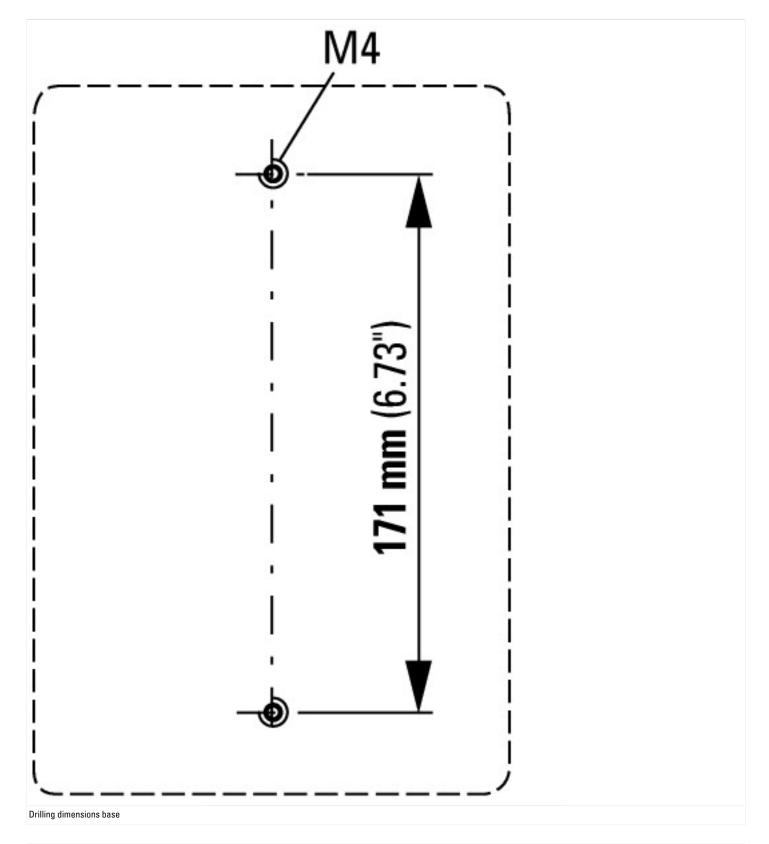
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

Model		Star-delta switch
Number of poles		3
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	А	32
Rated operation current le at AC-3, 400 V	А	23.7
Rated operation power at AC-3, 400 V	kW	18.5
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
Type of electrical connection of main circuit		Screw connection

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.	3211-07
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, additional labeling according to UL on the enclosure in combination with "+NA- I2" (105866)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12





Assets (links)

Declaration of CE Conformity 00003074 Instruction Leaflets IL03801008Z2018_05