DATASHEET - T3-2-95/12



step switch for heating, Contacts: 4, 32 A, front plate: 0-3, 60 °, maintained, surface mounting



1/7

Part no. T3-2-95/I2 Catalog No. 222855

EL-Nummer (Norway) 0001456841



ction.
r

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	

Enclosed		°C	-25 - +40
Overvoltage category/pollution degree		U	III/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance	O _{IMP}		12
Mounting position		g	As required
Contacts			As required
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			
AB 25 % DF		x I _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF			1.3
		x l _e	1.3
Short-circuit rating Fuse		A =C/=1	DE .
		A gG/gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	650
Note on rated short-time withstand current lcw		LA	Current for a time of 1 second
Rated conditional short-circuit current Switching capacity	Iq	kA	1
cos φ rated making capacity as per IEC 60947-3		Α	320
Rated breaking capacity cos ϕ to IEC 60947-3		A	020
230 V		A	260
400/415 V		A	260
500 V		A	240
690 V		A	170
Safe isolation to EN 61140		^	
between the contacts		V AC	440
Current heat loss per contact at I _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
		X IU	
Maximum operating frequency	Operations/h		1200
AC AC-3			
Rating, motor load switch	P	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	P	kW	15
500 V Star-delta	r P	kW	18.5
690 V	r P	kW	11
690 V Star-delta	P	kW	22
Rated operational current motor load switch		,	
230 V	I _e	Α	23.7
230 V star-delta	I _e	A	32
400V 415 V		A	23.7
400 V star-delta	l _e		
	l _e	A	32
500 V	l _e	Α .	23.7
500 V star-delta	l _e	Α	32
690 V	l _e	Α	14.7
690 V star-delta	le	Α	25.5
AC-21A			
Rated operational current switch			

440 V	l _e	Α	32
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	Р	kW	7.5
400 V 415 V	Р	kW	15
500 V	Р	kW	15
690 V	Р	kW	15
Rated operational current motor load switch			
230 V	l _e	Α	32
400 V 415 V	I _e	Α	32
500 V	I _e	Α	26.4
690 V	I _e	A	17
DC	G		
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	25
Voltage per contact pair in series		V	60
DC-21A	I _e	Α	
Rated operational current	I _e	Α	1
Contacts	Ü	Quantity	
		Quantity	'
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	1
48 V			
Rated operational current	I _e	Α	25
Contacts	Ü	Quantity	
		Quantity	2
60 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	3
120 V			
Rated operational current	I _e	Α	12
Contacts		Quantity	3
240 V		Quantity	
			-
Rated operational current	l _e	Α	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	Α	20
Voltage per contact pair in series		V	24
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
	probability		< 10 , < 1 lault iii 100000 operations
Terminal capacities			
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)
T			
Terminal screw			M4
Tightening torque for terminal screw		Nm	1.6
Technical safety parameters:			PLAN A STATE OF THE STATE OF TH
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	25
		^	
Auxiliary contacts			

Α	10
	A 600 P 600
HP	1.5
HP	3
HP	3
HP	3
HP	3
HP	7.5
HP	10
SCCR	
kA	5
Α	40
kA	10
Α	40, Class J
AWG	14 - 10
	M4
lb-in	17.7
	HP HP HP HP SCCR kA A kA A

Design verification as per IEC/EN 61439

besign verification as per 126/214 01403			
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	40
EC/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)

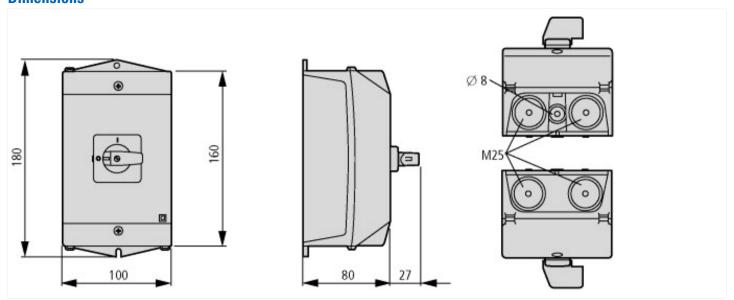
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

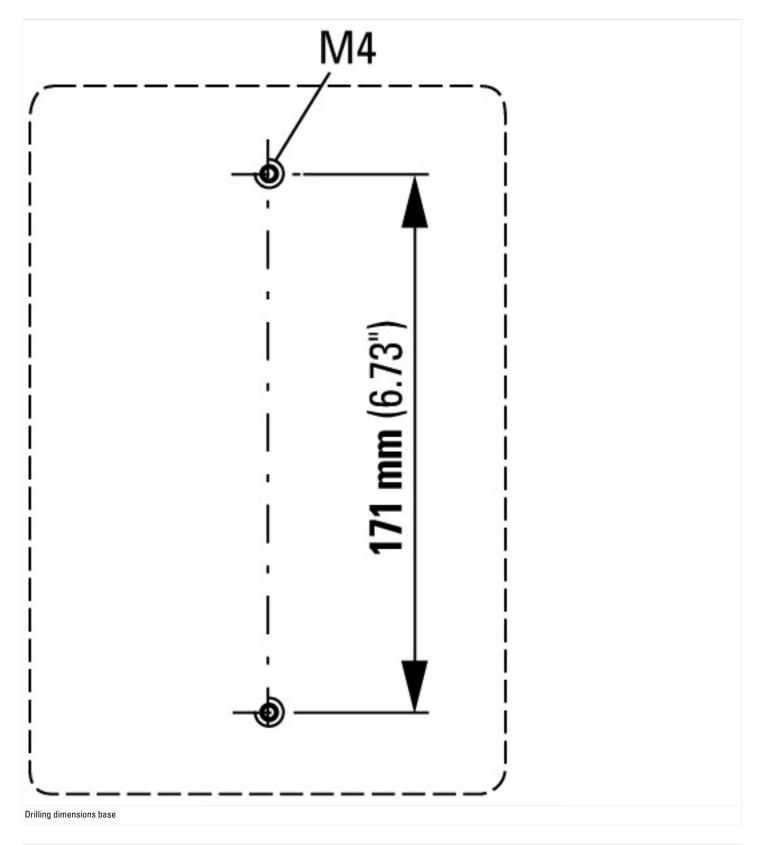
Type of switch			Level switch
Number of poles			1
Max. rated operation voltage Ue AC	V	/	690
Rated permanent current lu	А	A	32
Number of switch positions			4
With 0 (off) position			Yes
With retraction in 0-position			No
Device construction			Surface mounted device
Width in number of modular spacings			0
Suitable for ground mounting			Yes
Suitable for front mounting 4-hole			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Complete device in housing			Yes
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.	3211-07
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- 12" (105866)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions





Assets (links)

Declaration of CE Conformity 00003074

Instruction Leaflets

IL03801008Z2018_05