DATASHEET - TM-3-15433/EZ



Changeoverswitches, Contacts: 6, 10 A, front plate: HAND-0-AUTO, 60 $^{\circ},$ maintained, centre mounting



Part no. TM-3-15433/EZ Catalog No. 045490

EL-Nummer (Norway)

0001456165

Similar to illustration

Delivery program			
Product range			Control switches
Part group reference			TM
Basic function			Changeoverswitches
			with black thumb grip and front plate
Contacts			6
Degree of Protection			Front IP65
Design			centre mounting
Contact sequence			AUTO AUTO AUTO AUTO AUTO AUTO AUTO AUTO
Switching angle		0	60
Switching performance			maintained With 0 (Off) position
Design number			15433
Front plate no.			F 085
front plate			HAND-0-AUTO
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	3
Rated uninterrupted current	I _u	Α	10
Note on rated uninterrupted current !u			Rated uninterrupted current $I_{\rm u}$ is specified for max. cross-section.
Number of contact units		contact unit(s)	3

Technical data

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15	oπ	- 0

Standards			IEC/EN 60947, VDE 0660, CSA, UL Control switch as per IEC/EN 60947-5-1 Auxiliary switch as per IEC/EN 60947-5-1
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +50
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	4000

Mounting position			As required
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	500
Rated uninterrupted current	I _u	Α	10
Note on rated uninterrupted current $!_{u}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Short-circuit rating			
Fuse		A gG/gL	10
Switching capacity			
Safe isolation to EN 61140			
Current heat loss per contact at l _e		W	0.15
Current heat loss per auxiliary circuit at $I_{\rm e}$ (AC-15/230 V)		CO	0.15
Lifespan, mechanical	Operations	x 10 ⁶	>1
Maximum operating frequency	Operations/h		1200
AC			
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
400 V 415 V	Р	kW	3
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 1,5 2 x 1,5
Flexible with ferrules to DIN 46228		mm^2	1 x 1.0 2 x 1.0
Flexible		mm ²	1 x 1.5 2 x 1.5
Terminal screw			M2.5
Tightening torque for terminal screw		Nm	0.4
Rating data for approved types			
Contacts			
Rated operational voltage	U _e	V AC	300
Rated uninterrupted current max.			
Main conducting paths			
General use		Α	10
Auxiliary contacts			
General Use	lu	Α	10
Pilot Duty			A 300
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	0.33
240 V AC		HP	0.75
277 V AC		HP	0.75
Three-phase			
120 V AC		HP	0.75
240 V AC		HP	1
Terminal capacity			
Solid or flexible conductor with ferrule		AWG	14
Terminal screw			M2.5
Tightening torque		lb-in	3.5

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	10
Heat dissipation per pole, current-dependent	P _{vid}	W	0.15
Equipment heat dissipation, current-dependent	P _{vid}	W	0

Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.3.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Power-frequency electric strength Pdiss W 0 -2.5 50 Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. UV resistance only in connection with protective shield. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility.	
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10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	
10.9.3 Impulse withstand voltage	
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. Eato provide heat dissipation data for the devices.	ı will
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear observed.	nust be
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear observed.	nust be
10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	

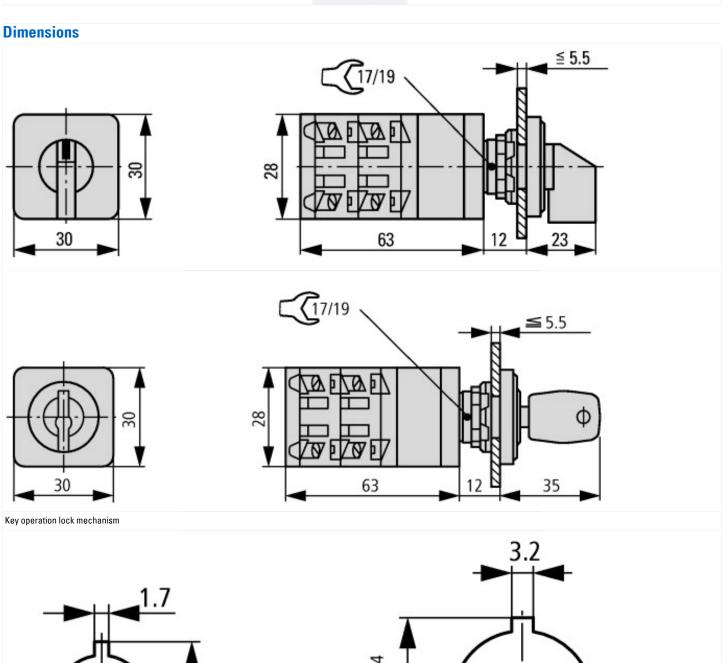
Technical data ETIM 7.0

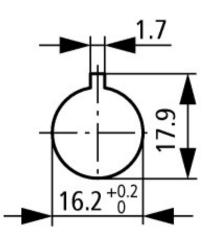
Low-voltage industrial components (EG000017) / Control switch (EC002611)

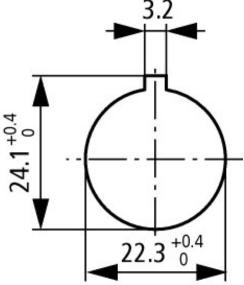
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

2.2.2.2.2.4		
Type of switch		Reverser
Number of poles		3
Max. rated operation voltage Ue AC	V	500
Rated permanent current lu	А	10
Number of switch positions		3
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		No
Suitable for front mounting 4-hole		Yes
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
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		Other

Approvals	
Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	UL report applies to both US and Canada
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	IEC: IP65; UL/CSA Type: –







Door drilling dimensions

Drilling dimensions: either 16.2 mm = without reduction ≙ RMQ16 or 22.3 mm = with reduction ≙ RMQ Titan

Assets (links)

Declaration of CE Conformity

00002932

Instruction Leaflets

IL03801025Z2018_04