

Changeoverswitches, Contacts: 2, 10 A, front plate: 1-0-2, 60 °, maintained, centre mounting



Part no. TM-1-8210/EZ Article no. 015137

Similar to illustration

Delivery program			
Product range			Control switches
Part group reference			тм
Basic function			Changeoverswitches
			with black thumb grip and front plate
Contacts			2
Degree of Protection			Front IP65
Design			centre mounting
Contact sequence			10 20 30 X 40 X
Switching angle		0	60
Switching performance			maintained With 0 (Off) position
Front plate no.			
			F 071
front plate			1-0-2
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	3
Rated uninterrupted current	I _u	Α	10
Number of contact units		contact unit(s)	1

Technical data General

delicital		
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	r		As required
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	500
Rated uninterrupted current	Iu	Α	10
Note on rated uninterrupted current !u			Rated uninterrupted current lu 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 I _e		W	0.15
Current heat loss per auxiliary circuit at I _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	P	kW	
400 V 415 V	P	kW	3
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
	probability		, a Fradicin rootoo operations
Terminal capacities			
Solid or stranded		mm ²	1 x 1,5 2 x 1,5
Flexible		mm ²	1 x 1.5
			2 x 1.5
Terminal screw			M2.5
Max. tightening torque		Nm	0.35
Rating data for approved types Contacts			
Rated operational voltage	U _e	V AC	300
Rated uninterrupted current max.	O _e	V A0	000
Main conducting paths General use	L.	Α	10
	lu	A	10
Auxiliary contacts General Use		^	10
	I _U	Α	
Pilot Duty			A 300
Switching capacity Mariana and a same a same a same a same a same			
Maximum motor rating			
Single-phase		ш	0.00
120 V AC		HP	0.33
240 V AC		НР	0.75
277 V AC		HP	0.75
Three-phase		LID	0.75
120 V AC		HP	0.75
240 V AC		HP	1
Terminal capacity		A)A/O	10.14
Solid or flexible conductor with ferrule		AWG	16 - 14
Flexible		AWG	16 2 x 16
Terminal screw			M2.5

lechnical data for design verification		
Rated operational current for specified heat dissination	1	Δ

Rated operational current for specified heat dissipation $\ensuremath{\text{I}}_{n}$	•	Α	10

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	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
leaflet (IL) is observed.	10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

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

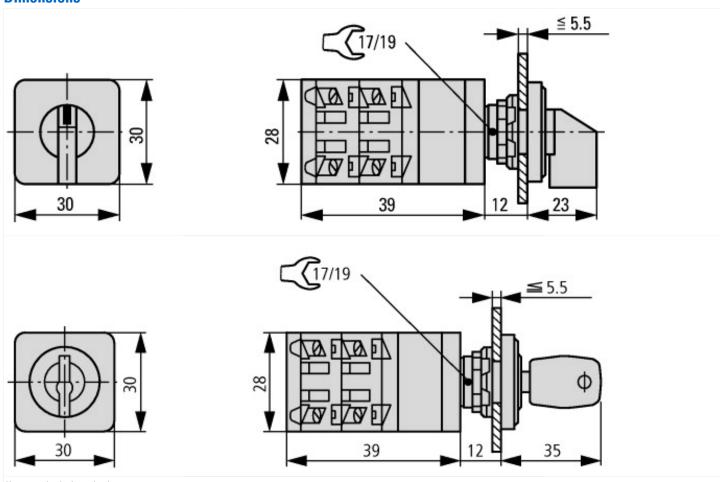
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss8.1-27-37-14-05 [AKF062010])

Model		Reverser
Number of poles		1
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	Α	10
Rated operation current le at AC-3, 400 V	Α	0
Rated operation power at AC-3, 400 V	kW	1.1
Degree of protection (IP), front side		IP65
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		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

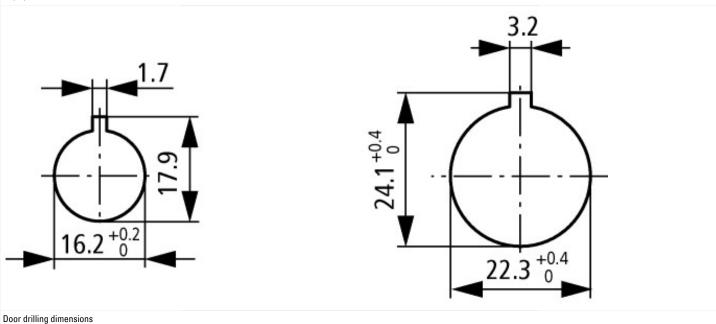
Approvals

- Physical Control of the Control of	
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: –

Dimensions







Drilling dimensions: either 16.2 mm = without reduction $\stackrel{\triangle}{=}$ RMQ16 or 22.3 mm = with reduction $\stackrel{\triangle}{=}$ RMQ Titan

Additional product information (links)

IL03801025Z On-Off-switch, changeover switch, control switch		
IL03801025Z On-Off-switch, changeover switch control switch	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801025Z2014_12.pdf	
Form for ordering non-standard front plates	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87	
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=135	
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2	
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4	
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6	
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html	