DATASHEET - T0-2-15114/I1



Step switches, T0, 20 A, surface mounting, 2 contact unit(s), Contacts: 4, 90 °, maintained, With 0 (Off) position, 0-1-1+2-2, design no. 15114



Part no. T0-2-15114/l1 Catalog No. 222596



Similar to illustration

onima to musuaduri			
Delivery program			
Product range			Control switches
Part group reference			Т0
Basic function			Step switches
			with black thumb grip and front plate
Contacts			4
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			10 0 11+22 0 WX XX
Switching angle		0	90
Switching performance			maintained With 0 (Off) position
Design number			15114
Front plate no.			To -0-1+2 2 FS 193840
front plate			0-1-1+2-2
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	Iu	Α	20
Note on rated uninterrupted current !u			Rated uninterrupted current l _u is specified for max. cross-section.
Number of contact units		contact unit(s)	2

Technical data

Genera	
Standard	l

Standards	IEC/EN 60947, VDE 0660, IEC/EN 60204 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			III/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance	r	g	15
Mounting position			As required
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	Α	20
Note on rated uninterrupted current !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 I _e	1.6
AB 60 % DF		x l _e	1.3
Short-circuit rating		X 16	1.0
Fuse		A aC/al	20
		A gG/gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Note on rated short-time withstand current lcw		I. A	Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	6
Switching capacity cos φ rated making capacity as per IEC 60947-3		Α	130
Rated breaking capacity cos φ to IEC 60947-3		A	
230 V		A	100
400/415 V		A	110
500 V		A	80
690 V		A	60
Safe isolation to EN 61140		^	
between the contacts		V AC	440
Current heat loss per contact at I _e		W	0.6
		CO	0.6
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)	0		
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	3
230 V Star-delta	Р	kW	5.5
400 V 415 V	P	kW	5.5
400 V Star-delta	Р	kW	7.5
500 V	Р	kW	5.5
500 V Star-delta	Р	kW	7.5
690 V	P	kW	4
690 V Star-delta	Р	kW	5.5
Rated operational current motor load switch			
230 V	l _e	Α	11.5
230 V star-delta	l _e	Α	20
400V 415 V	I _e	Α	11.5
400 V star-delta	I _e	Α	20
500 V	l _e	Α	9
500 V star-delta	I _e	Α	15.6
690 V	I _e	A	4.9
690 V star-delta	I _e	A	8.5
AC-23A	-e	,	
MU-ZJA			

Terminal screw			M3.5
			M3.5
Rating data for approved types Terminal capacity			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Technical safety parameters:			DIA THURSDAY AND THE
Tightening torque for terminal screw		Nm	1
Terminal screw			M3.5
Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Solid or stranded		mm ²	1 x (1 - 2,5) 2 x (1 - 2,5)
Terminal capacities	probability		
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Voltage per contact pair in series		V	32
Rated operational current	I _e	Α	10
DC-13, Control switches L/R = 50 ms			
Contacts		Quantity	5
Rated operational current	I _e	Α	5
240 V			
Contacts		Quantity	3
Rated operational current	I _e	Α	5
120 V			
Contacts		Quantity	3
Rated operational current	I _e	Α	10
60 V		,	
Contacts		Quantity	
Rated operational current	I _e	A	10
48 V			
Contacts	-6	Quantity	
Rated operational current	l _e	A	10
24 V			
DC-23A, motor load switch L/R = 15 ms		Quantity	
Contacts	·e	Quantity	
Rated operational current	l _e	A	1
Voltage per contact pair in series DC-21A	l _e	A	
	'e	V	60
DC-1, Load-break switches L/R = 1 ms Rated operational current	l _e	Α	10
DC			
690 V	l _e	A	7.6
500 V	I _e	A	13.3
400 V 415 V	l _e	A	13.3
	l _e		
Rated operational current motor load switch 230 V	ı	A	13.3
690 V	Р	kW	5.5
500 V	P	kW	7.5
400 V 415 V	Р	kW	5.5
230 V	Р	kW	3
Motor rating AC-23A, 50 - 60 Hz	Р	kW	

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
Equipment heat dissipation, current-dependent	P _{vid}	W	0

Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. IEC/EN 61439 design verification 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 tresistance 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 10.2.7 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 Pdiss W 0 40 Weets 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. 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. Some not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Some not apply, since the entire switchgear needs to be evaluated. Some not apply, since the entire switchgear needs to be evaluated. Some not apply, since the entire switchgear needs to be evaluated. Some not apply, since the entire switchgear needs to be evaluated. Some not apply, since the entire switchgear needs to be evaluated.	
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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. Eat provide heat dissipation data for the devices.	n will
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgea observed.	must be
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgea observed.	must be
10.13 Mechanical function The device meets the requirements, provided the information in the instribution leaflet (IL) is observed.	ction

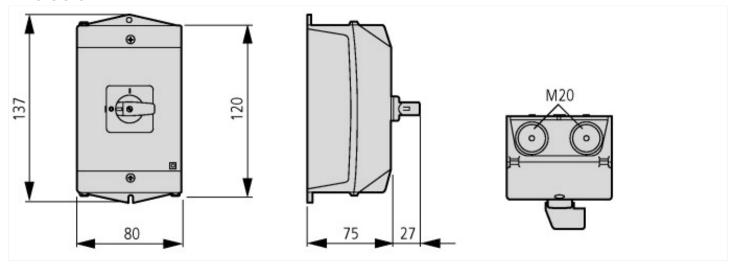
Technical data ETIM 7.0

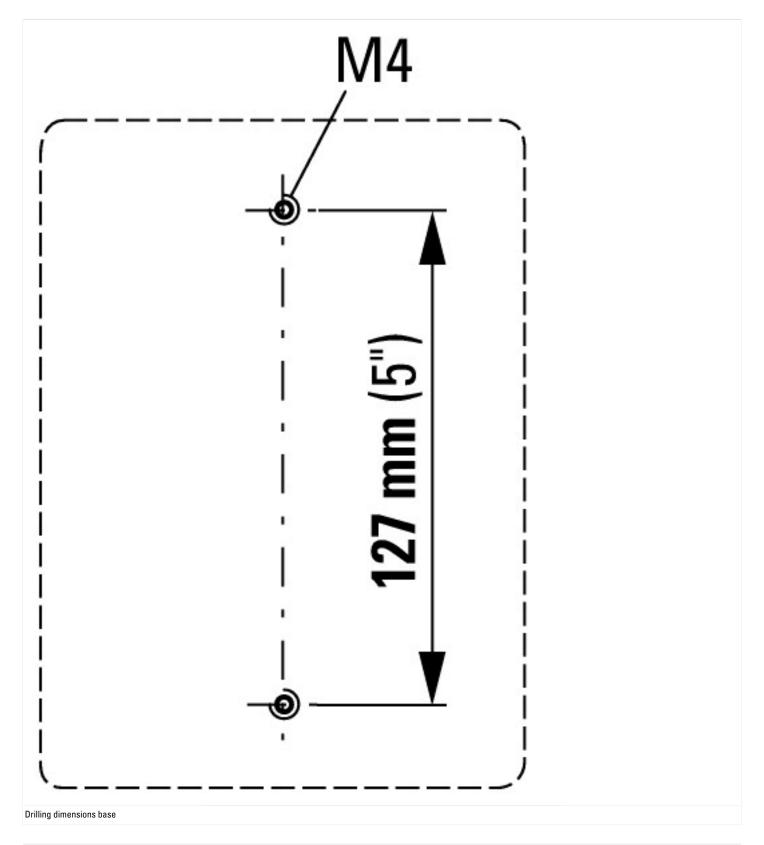
Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

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		Reverser
Number of poles		2
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	А	20
Rated operation current le at AC-3, 400 V	А	11.5
Rated operation power at AC-3, 400 V	kW	4
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		Other
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

Dimensions





Additional product information (links)

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Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=93
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