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ISO 9001 Certified Quality System

Cod. CR012MZ24RT4



(Image is purely indicative)



Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller



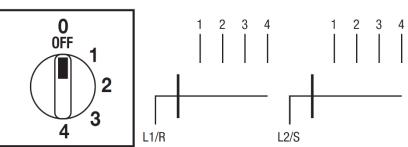
Technical characteristics: Body

- Multi step switch with OFF 2 pole 4 steps
- IP20 Protection degree
- Rated operational current le: 12A
 Rated thermal current lth: 16A
- Rated insulation voltage Ui: 690V
- · Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 45°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

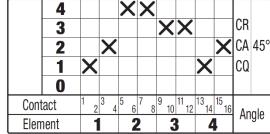
Technical characteristics: Knob

- Grey plate 48x48mm and black knob
- · IP66 Protection degree
- Fixing:- 2 screw at 28mm vertical

Positions Electrical diagram



Electrical function



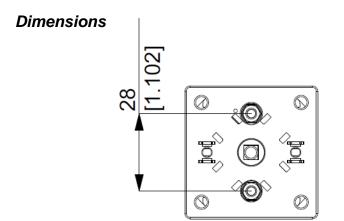


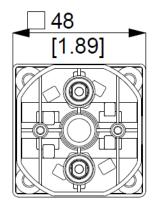
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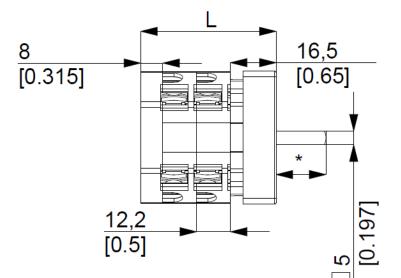
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measures in mm (in)

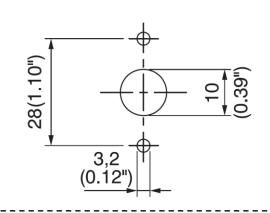


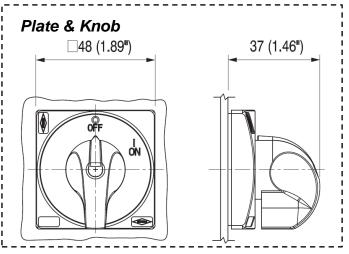




* Sporgenza / Ledge 18,00mm L Lunghezza / Length 73,30mm

Drilling templates







Bremas Ersce SpA

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rated insulation voltage Tated operating voltage Tated impulse withstand voltage Tated thermal current for open switch Tated thermal current for enclosed switch				
ated impulse withstand voltage ated thermal current for open switch ated thermal current for enclosed switch		Ui	V	690
ated thermal current for open switch ated thermal current for enclosed switch		Ue	V	690
ated thermal current for enclosed switch		Uimp	kV	6
ated thermal current for enclosed switch		Ith	Α	16
		Ithe	A	16
ated operation frequency			Hz	50/60
ower dissipation for each pole			W	0,27
			VV	0,27
ated operating current		•		
C-21A Switching resistive loads, including moderate overloads		le	A	12
C-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	12
C-20A Connecting and disconnecting under no loads conditions				-
ated operating power				
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole		230V	Kw (A)	3 (9)
		400V	Kw (A)	4 (9)
		500V	Kw (A)	-
		690V	Kw (A)	-
C-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	0,75 (8,5)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole	230V	Kw (A)	1,5 (8,5)	
	230V	Kw (A)	2,2 (7)	
		400V	Kw (A)	3,5 (7)
		500V	Kw (A)	-
		690V	Kw (A)	-
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching	110V	Kw (A)	0,37 (4)	
		230V	Kw (A)	1,1 (6)
		400V	Kw (A)	-
	230V	Kw (A)		
		400V	Kw (A)	
C-15 Control of a.c electromagnetic loads		230V	A	4
		400V	A	3
Rated breaking capability in AC-23A (cos φ=0,45)		230V	Α	72
		400V	Α	72
hort circuit protection				
ated short time withstand current		lcw	Α	150
ated short-circuit make capacity		Icm	Α	-
ated conditional short-circuit current		-	kA	4
/ith fuses class gG		500V	Α	16
echnical data UL/CSA		300 V		10
		11-	111 /CCA 1/	500/
ated operating voltage		Ue	UL/CSA V	600/ -
eneral use current		le	UL/CSA A	12
nort circuit rating @600Vac			Arms	5000
use size (Class RK5, 600Vac, 200kA A.I.C.)			A	60
ated operating power				
phase - 2 pole		120V	Hp (A)	0,5 (9,8)
		240V	Hp (A)	1,5 (10)
B phase - 3 pole		200V	Hp (A)	1,5 (6,9)
•		240V	Hp (A)	2 (6,8)
		480V		
			Hp (A)	3 (4,8)
		600V	Hp (A)	5 (6,1)
		Max	mm	4
lechanical characteristics anel tickness			Cycles x 10 ⁶	2
anel tickness			Cycles/hr	120
anel tickness				
nel tickness echanical life				
anel tickness echanical life onnection according to IEC 9471-1 and EN 50947-1	With flexible wires	Min-Max	mm²	2x1.5-4
anel tickness echanical life onnection according to IEC 9471-1 and EN 50947-1	With flexible wires			2x1,5-4
anel tickness echanical life onnection according to IEC 9471-1 and EN 50947-1		Min-Max	AWG	16-10
onel tickness dechanical life connection according to IEC 9471-1 and EN 50947-1 connecting capability	With flexible wires With solid wires		AWG mm²	16-10 2x1,5-6
onnection according to IEC 9471-1 and EN 50947-1 connecting capability connection terminal screw dimensions		Min-Max	AWG mm² Type	16-10 2x1,5-6 M3,5
onnection according to IEC 9471-1 and EN 50947-1 connecting capability connection terminal screw dimensions crew tightening torque		Min-Max	AWG mm²	16-10 2x1,5-6
onnection according to IEC 9471-1 and EN 50947-1 connecting capability connection terminal screw dimensions		Min-Max	AWG mm² Type	16-10 2x1,5-6 M3,5
onnection according to IEC 9471-1 and EN 50947-1 connection capability connection terminal screw dimensions crew tightening torque cotection degree IEC 529 EN 60529		Min-Max	AWG mm² Type	16-10 2x1,5-6 M3,5
onel tickness lechanical life connection according to IEC 9471-1 and EN 50947-1 connecting capability connection terminal screw dimensions crew tightening torque		Min-Max	AWG mm² Type Nm	16-10 2x1,5-6 M3,5 1
onnection according to IEC 9471-1 and EN 50947-1 connection capability connection terminal screw dimensions rew tightening torque cotection degree IEC 529 EN 60529 cominals combined to conditions		Min-Max	AWG mm² Type Nm	16-10 2x1,5-6 M3,5 1
onnection according to IEC 9471-1 and EN 50947-1 onnecting capability onnection terminal screw dimensions rew tightening torque otection degree IEC 529 EN 60529 erminals mbient conditions perating ambient temperature		Min-Max	AWG mm² Type Nm	16-10 2x1,5-6 M3,5 1 20
onnection according to IEC 9471-1 and EN 50947-1 onnecting capability onnection terminal screw dimensions trew tightening torque otection degree IEC 529 EN 60529 terminals mbient conditions perating ambient temperature orage ambient temperature		Min-Max	AWG mm² Type Nm	16-10 2x1,5-6 M3,5 1 20 -25 ÷ +5! -30 ÷ +7(
nel tickness chanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability nnection terminal screw dimensions ew tightening torque stection degree IEC 529 EN 60529 minals shient conditions erating ambient temperature		Min-Max	AWG mm² Type Nm	16-10 2x1,5-6 M3,5 1 20

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