

Bremas Ersce SpA

Via castellazzo 9 - 20040 Cambiago (MI)

Tel +39 02 95651611 Fax +39 02 95651639

www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

Cod. CR016MZ24RT6



(Image is purely indicative)



Positions

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: 16A
- Rated thermal current Ith: 20A
- · 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.

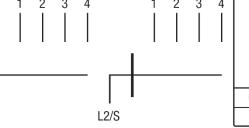
Technical characteristics: Knob

- Grey plate 67x67mm and black knob
- · IP66 Protection degree
- Fixing:- 2 screw at 28mm vertical

0 1 2 3 4 1 2 3 4 4 3

L1/R

Electrical diagram





Electrical function

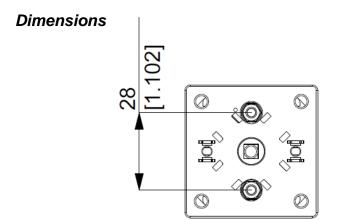


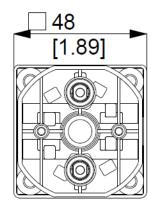
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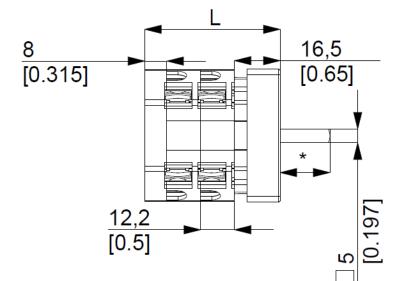
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measures in mm (in)

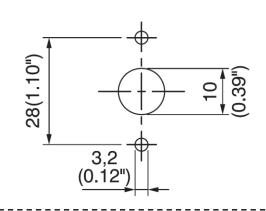


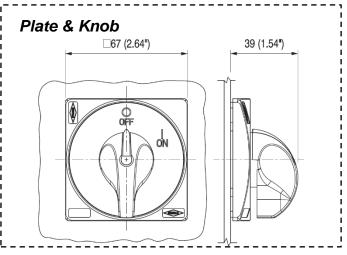




* Sporgenza / Ledge 18,00mm L Lunghezza / Length 73,30mm

Drilling templates







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Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage		Ui 	V	690
Rated operating voltage Rated impulse withstand voltage		Ue	V kV	690
		Uimp	A	20
Rated thermal current for open switch				
Rated thermal current for enclosed switch		Ithe	A Hz	20 50/60
Rated operation frequency Power dissipation for each pole			W	
			w	0,5
Rated operating current				16
AC-21A Switching resistive loads, including moderate overloads		le	A	16
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	16
AC-20A Connecting and disconnecting under no loads conditions				-
Rated operating power				
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole		230V	Kw (A)	4 (14)
		400V	Kw (A)	7,5 (14)
		500V	Kw (A)	-
		690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	1,1 (12)
		230V	Kw (A)	2,2 (14)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	3,7 (12)
	400V	Kw (A)	5,5 (10)	
		500V	Kw (A)	-
		690V	Kw (A)	-
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	0,75 (9)
		230V	Kw (A)	1,5 (8)
		400V	Kw (A)	-
AC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	-
		400V	Kw (A)	-
AC-15 Control of a.c electromagnetic loads		230V	A	6
		400V	A	4
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	112
		400V	A	112
Short circuit protection				
Rated short time withstand current		lcw	A	240
Rated short-circuit make capacity		Icm	A	-
Rated conditional short-circuit current		-	kA	4
With fuses class gG		500V	A	20
Technical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600/-
General use current		le	UL/CSA A	16
Short circuit rating @600Vac			Arms	5000
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)			Α	25 (30)
Rated operating power				
1 phase - 2 pole		120V	Hp (A)	1 (16)
		240V	Hp (A)	2 (12)
3 phase - 3 pole		200V	Hp (A)	2 (7,8)
		240V	Hp (A)	3 (9,6)
		480V	Hp (A)	7,5 (11)
		600V	Hp (A)	7,5 (9)
Mechanical characteristics				
Panel thickness		Max	mm	4
Mechanical life			Cycles x 10 ⁶	2
			Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1				
Connecting capability	With flexible wires	Min-Max	mm²	2x1,5-4
		Min-Max	AWG	16-10
	With solid wires	Min-Max	mm²	2x1,5-6
Connection terminal screw dimensions			Туре	M3,5
Screw tightening torque			Nm	1
Protection degree IEC 529 EN 60529				
Terminals			IP	20
Ambient conditions				_
Operating ambient temperature			°C	-25 ÷ +55
Storage ambient temperature			°C	-30 ÷ +70
			-	2-78
				2-30
Withstand to constant humid according to IEC 60068 Withstand to cyclic humid according to IEC 60068				