

Bremas Ersce SpA

Via castellazzo 9 - 20040 Cambiago (MI)

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ISO 9001 Certified Quality System

Cod. CA0200003PL2

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

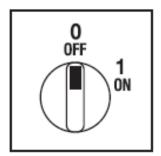
- Three-pole switch
- IP00 Protection degree
- Rated operational current le: 20A
- Rated thermal current Ith: 25A
- Rated insulation voltage Ui: 690V
- · Rear panel mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.



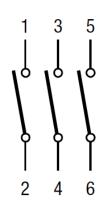
Technical characteristics: Knob

- Transparent plate 75,5x75,5mm and black knob
- Fixing with 2 screws at 28mm vertical
- IP 40 Protection degree

Positions



Electrical diagram



Electrical function





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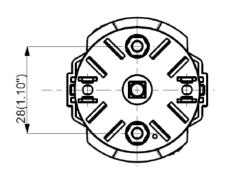
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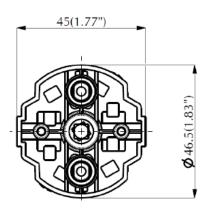
measures in mm (in)

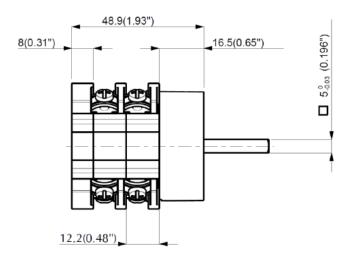
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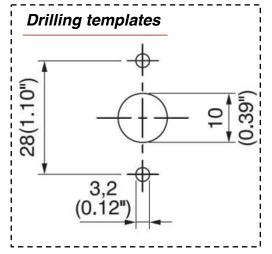
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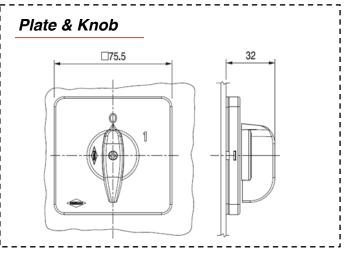
Dimensions











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Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage		Ui	V	690
Rated operating voltage		Ue	V	690
Rated impulse withstand voltage		Uimp	kV	6
Rated thermal current for open switch		Ith	Α	25
Rated thermal current for enclosed switch		Ithe	Α	25
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	0,4
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		le	Α	20
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	Α	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)	5,5 (17)
		400V	Kw (A)	9 (16)
		500V	Kw (A)	9 (13)
		690V	Kw (A)	9 (9)
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	1,1 (5)
		230V	Kw (A)	3 (17)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	4 (13)
		400V	Kw (A)	7,5 (14)
		500V	Kw (A)	7,5 (11)
		690V	Kw (A)	7,5 (8)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	1,1 (13)
		230V	Kw (A)	2,2 (12)
		400V	Kw (A)	3,7 (12)
AC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	1,5 (4,5)
		400V	Kw (A)	2,2 (2,6)
AC-15 Control of a.c electromagnetic loads		230V	Α	7
		400V	Α	5
Rated breaking capability in AC-23A (cos φ=0,45)		230V	Α	136
		400V	Α	128
Short circuit protection				
Rated short time withstand current		lcw	Α	240
Rated short-circuit make capacity		Icm	Α	1500
Rated conditional short-circuit current		-	kA	5
With fuses class gG		500V	Α	20
Technical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600/300
General use current		le	UL/CSA A	20/16
Short circuit rating @600Vac			Arms	5000
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)			Α	60
Rated operating power				
1 phase - 2 pole		120V	Hp (A)	1,5 (20)/-
		240V	Hp (A)	3 (17)/-
3 phase - 3 pole		200V	Hp (A)	5 (16,7)/-
		240V	Hp (A)	7,5 (22)/-
		480V	Hp (A)	10 (14)/-
		600V	Hp (A)	10 (11)/-
Mechanical characteristics				
Panel tickness		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				
Ferminals			IP	00
Ambient conditions				
Operating ambient temperature			°C	-25 ÷ +55
				-30 ÷ +70
Storage ambient temprature			· C	
Storage ambient temprature Withstand to constant humid according to IEC 60068			°C	2-78