

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. CR0120032RT4

### 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
- CCC certified





(Photo purely indicative)

# Technical characteristics: Body

IP20 Protection degree

Rated operational current le: 12A
Rated thermal current Ith: 16A

Rated insulation voltage Ui: 690V

· Rear Mounting

Fixing with 2 screw at 28mm vertical

Switching angle: 60°

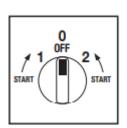
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, made of silver and alloy.



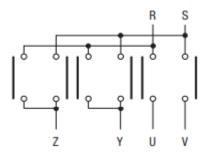
#### Technical characteristics: Plate and knob

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

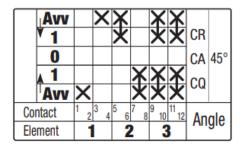
#### Plate and Positions



## Electrical scheme



#### Electrical function





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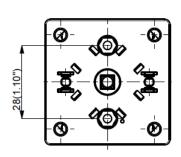
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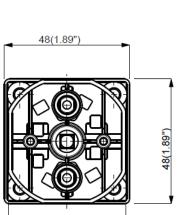
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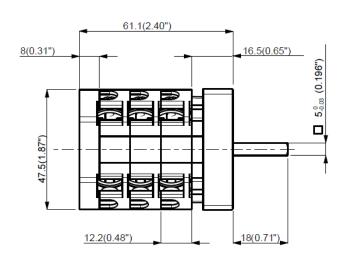
#### measures in mm (in)

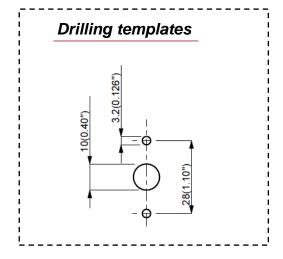
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## **Dimensions**

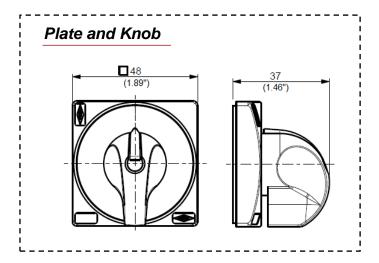








45(1.77")





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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	A	16
Rated thermal current for enclosed switch		Ithe	A	16
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	0,27
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		le	A	12
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	12
AC-20A Connecting and disconnecting under no loads conditions				-
Rated operating power		2221		0.40
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole		230V	Kw (A)	3 (9)
		400V 500V	Kw (A)	4 (9)
		690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	0,75 (8,5)
AC 23A SWICEHING OF HIGHO TO BUS OF OTHER HIGHLY HIGHEVE TO BUS 1 PHOSE 2 POLE		230V	Kw (A)	1,5 (8,5)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		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		110V	Kw (A)	0,37 (4)
		230V	Kw (A)	1,1 (6)
		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	Α	4
		400V	Α	3
Rated breaking capability in AC-23A (cos φ=0,45)		230V	Α	72
		400V	A	72
Short circuit protection				
Rated short time withstand current		lcw	A	150
Rated short-circuit make capacity		Icm	A	-
Rated conditional short-circuit current		-	kA .	4
With fuses class gG		500V	Α	16
Technical data UL/CSA			III (CCA)	500/
Rated operating voltage		Ue	UL/CSA V	600/-
General use current		le	UL/CSA A	12
Short circuit rating @600Vac			Arms	5000
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)  Rated operating power			Α	60
1 phase - 2 pole		120V	Hp (A)	0,5 (9,8)
a priode a porc		240V	Hp (A)	1,5 (10)
3 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)
Mechanical characteristics				
Panel thickness		Max	mm	4
Mechanical life			Cycles x 10 <sup>6</sup>	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 temprature			°C	-30 ÷ +70
Withstand to constant humid according to IEC 60068				2-78
Withstand to cyclic humid according to IEC 60068				2-30
Mechanical characteristics Plate and knob				
Knob screw tightening torque Plate screws tightening torque			Nm Nm	0,4 0,4

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