

Via castellazzo 9 - 20040 Cambiago (MI)
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www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

Cod. CR0200039RT6

### 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





(Image is purely indicative)



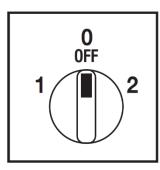
## Technical characteristics: Body

- Change-over switch 4 pole
- IP20 Protection degree
- Rated operational current le: 20A
- Rated thermal current Ith: 25A
- 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, silver alloy made.

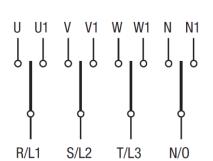
#### Technical characteristics: Knob

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

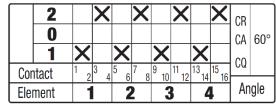
**Positions** 



Electrical diagram



## Electrical function



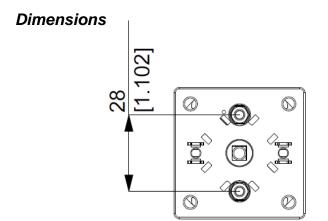


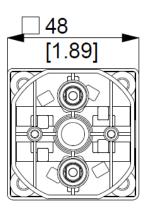
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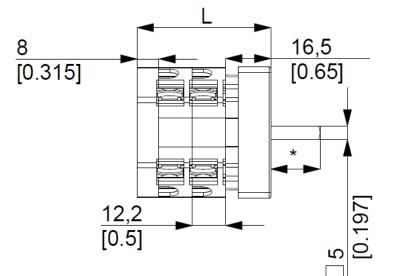
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measures in mm (in)

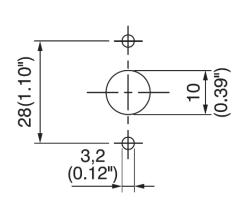


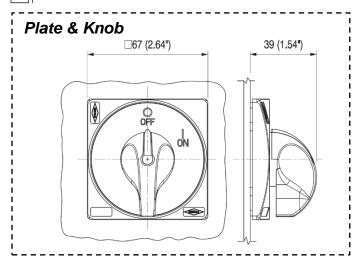




\* Sporgenza / Ledge 18,00mm L Lunghezza / Length 73,30mm

# **Drilling templates**







### Bremas Ersce SpA

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Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage		Ui	V	690
Rated operating voltage		Ue	V	690
Rated operating voltage		Uimp	kV	6
· · · · · · · · · · · · · · · · · · ·		Ith	A	25
Rated thermal current for open switch				
Rated thermal current for enclosed switch		Ithe	Α	25
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	1
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)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	3 (17)
		230V	Kw (A)	4 (13)
		400V	Kw (A)	7,5 (14)
		500V		
			Kw (A)	7,5 (11)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		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	А	5
Rated breaking capability in AC-23A (cos φ=0,45)		230V	Α	136
		400V	A	128
Short circuit protection				
Rated short time withstand current		lcw	A	240
Rated short-circuit make capacity		Icm	Α Α	1500
Rated conditional short-circuit current		-	kA	5
With fuses class gG		500V	A	20
		3007	A	20
Technical data UL/CSA			/054.1/	500/200
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.)			A	60
Rated operating power				
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
		IVIUA		2
Mechanical life				. 4
Mechanical life		•	Cycles x 10 <sup>6</sup>	
			Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1	West floor		Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1	With flexible wires	Min-Max	Cycles/hr mm²	120 2x1,5-4
Connection according to IEC 9471-1 and EN 50947-1		Min-Max	Cycles/hr mm² AWG	2x1,5-4 16-10
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability	With flexible wires  With solid wires		Cycles/hr  mm²  AWG  mm²	2x1,5-4 16-10 2x1,5-6
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability		Min-Max	Cycles/hr  mm²  AWG  mm²  Type	2x1,5-4 16-10 2x1,5-6 M3,5
Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  Connection terminal screw dimensions  Screw tightening torque		Min-Max	Cycles/hr  mm²  AWG  mm²	120 2x1,5-4 16-10 2x1,5-6
Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  Connection terminal screw dimensions  Screw tightening torque		Min-Max	Cycles/hr  mm²  AWG  mm²  Type	120 2x1,5-4 16-10 2x1,5-6 M3,5
Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529		Min-Max	Cycles/hr  mm²  AWG  mm²  Type	2x1,5-4 16-10 2x1,5-6 M3,5
Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529  Terminals		Min-Max	Cycles/hr  mm²  AWG  mm²  Type  Nm	2x1,5-4 16-10 2x1,5-6 M3,5
Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529  Terminals  Ambient conditions  Degrating ambient temperature		Min-Max	Cycles/hr  mm²  AWG  mm²  Type  Nm	120 2x1,5-4 16-10 2x1,5-6 M3,5 1
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability  Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529  Terminals Ambient conditions Operating ambient temperature		Min-Max	Cycles/hr  mm²  AWG  mm²  Type  Nm	120 2x1,5-4 16-10 2x1,5-6 M3,5 1 20
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability  Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529  Terminals Ambient conditions		Min-Max	Cycles/hr  mm²  AWG  mm²  Type  Nm	120 2x1,5-4 16-10 2x1,5-6 M3,5 1

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