

Via castellazzo 9 - 20040 Cambiago (MI)
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ISO 9001 Certified Quality System

#### Cod. CR0120006RT4



(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



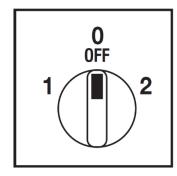
# Technical characteristics: Body

- Change-over swtch 2 pole
- 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, silver alloy made.

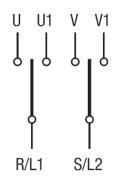
#### Technical characteristics: Knob

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

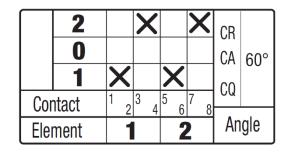
# **Positions**



# Electrical diagram



#### Electrical function



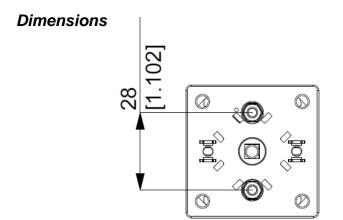


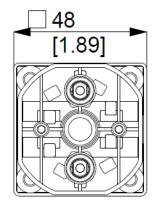
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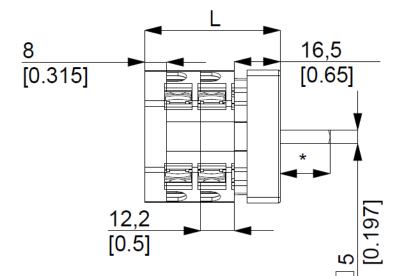
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measures in mm (in)

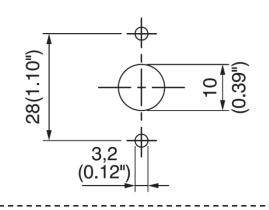


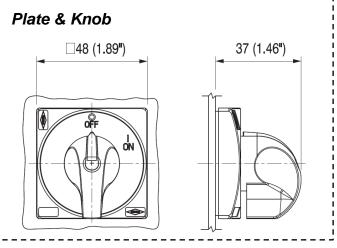




\* Sporgenza / Ledge 18,00mm L Lunghezza / Length 48,90mm

# **Drilling templates**







# Bremas Ersce SpA

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echnical data IEC 947-3 EN 60947-3				
ated insulation voltage		Ui	V	690
ated operating voltage		Ue	V	690
ated impulse withstand voltage		Uimp	kV	6
ated thermal current for open switch		Ith	Α	16
ated thermal current for enclosed switch		Ithe	A	16
ated operation frequency		Teric	Hz	50/60
			W	
ower dissipation for each pole			VV	0,27
ated operating current				
C-21A Switching resistive loads, including moderate overloads		le	Α	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				
C-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)
		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  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	Α	3
ated breaking capability in AC-23A (cos φ=0,45)		230V	Α	72
		400V	Α	72
nort circuit protection				
ated short time withstand current		Icw	A	150
ated short-circuit make capacity		Icm	A	-
ated conditional short-circuit current		-	kA	4
/ith fuses class gG		500V	Α	16
echnical data UL/CSA				
ated operating voltage		Ue	UL/CSA V	600/ -
eneral use current		le	UL/CSA A	12
		ic .		
nort circuit rating @600Vac			Arms	5000
ise 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)
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)
lechanical characteristics				
anel tickness		Max	mm	4
lechanical life			Cycles x 10 <sup>6</sup>	2
			Cycles/hr	120
annoction according to IEC 0471.1 and FN F0047.1			Cycles/III	120
onnection according to IEC 9471-1 and EN 50947-1				
onnecting capability	With flexible wires	Min-Max	mm²	2x1,5-4
		Min-Max	AWG	16-10
	With solid wires	Min-Max	mm²	2x1,5-6
onnection terminal screw dimensions		<u> </u>	Туре	M3,5
rew tightening torque			Nm	1
sew agricering corque			INIII	1
otection degree IEC 529 EN 60529			IP	20
otection degree IEC 529 EN 60529 erminals mbient conditions				
rminals nbient conditions			°C	-25 ÷ +5!
rminals  nbient conditions  perating ambient temperature				
rminals nbient conditions			°C °C	-25 ÷ +5! -30 ÷ +7! 2-78

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