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

ISO 9001 Certified Quality System

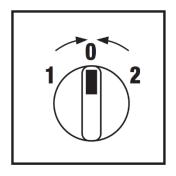
#### Cod. CR0200036RT6



(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



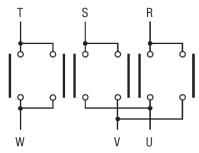
# Technical characteristics: Body

- Reversing switch 3 pole with spring return to "OFF"
- 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: 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.

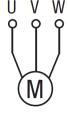
### Technical characteristics: Knob

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

# Electrical diagram and function



	<b>2</b>		X	X			X	CR		
	0							CA	45°	
	11	X	2	5	<b>X</b>	X	11	CQ		
Contact		' '	2 4	6	6	<sup>3</sup> 10	'' 12			
Element			1		2		3		Angle	



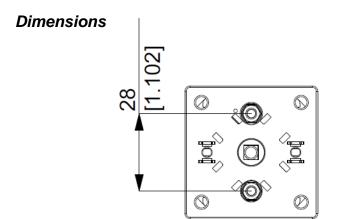


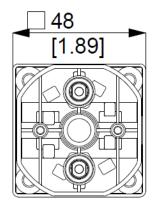
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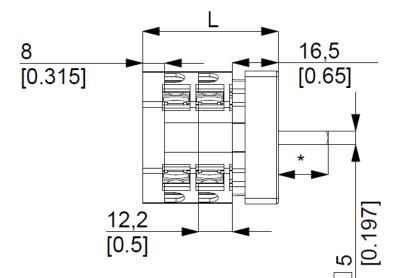
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measures in mm (in)

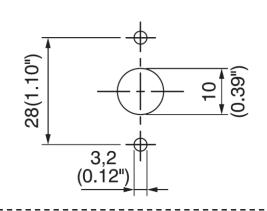


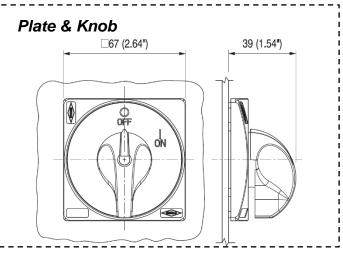




\* Sporgenza / Ledge 18,00mm L Lunghezza / Length 61,00mm

# **Drilling templates**







### Bremas Ersce SpA

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echnical data IEC 947-3 EN 60947-3				
ated insulation voltage		Ui	٧	690
ated operating voltage		Ue	٧	690
ated impulse withstand voltage		Uimp	kV	6
ated thermal current for open switch		Ith	A	25
ated thermal current for enclosed switch		Ithe	A	25
ated operation frequency			Hz	50/60
ower dissipation for each pole			W	1
ated operating current				
C-21A Switching resistive loads, including moderate overloads		le	A	20
C-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	16
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)	5,5 (17)
		400V	Kw (A)	9 (16)
		500V	Kw (A)	9 (13)
		690V	Kw (A)	9 (9)
C-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	1,1 (5)
-25A Switching of motor loads of other nighty inductive loads 1 phase - 2 pole		230V	Kw (A)	3 (17)
C-3 Squirrel cage meters: starting switching off motors during running 2 phase 2 pole		230V 230V		4 (13)
C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole			Kw (A)	
		400V	Kw (A)	7,5 (14)
		500V	Kw (A)	7,5 (11)
22 Continued and a state of the		690V	Kw (A)	7,5 (8)
C-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)
C-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	1,5 (4,5)
		400V	Kw (A)	2,2 (2,6)
C-15 Control of a.c electromagnetic loads		230V	Α	7
		400V	Α	5
ated breaking capability in AC-23A (cos φ=0,45)		230V	Α	136
		400V	Α	128
nort circuit protection				1
ated short time withstand current		lcw	Α	240
ated short-circuit make capacity		lcm	A	1500
ated conditional short-circuit current		-	kA	5
Tith fuses class gG		500V	Α	20
echnical data UL/CSA				
ated operating voltage		Ue	UL/CSA V	600/300
eneral use current		le	UL/CSA A	20/16
ort circuit rating @600Vac			Arms	5000
			Α	60
ise size (Class RK5, 600Vac, 200kA A.I.C.)				
			^	
ited operating power		120V	Hp (A)	1,5 (20)
ited operating power		120V 240V		
nted operating power phase - 2 pole			Нр (А)	1,5 (20)
oted operating power ohase - 2 pole		240V	Нр (A) Нр (A)	1,5 (20) 3 (17)
oted operating power ohase - 2 pole		240V 200V	Hp (A) Hp (A) Hp (A)	1,5 (20) 3 (17) 5 (16,7)
oted operating power ohase - 2 pole		240V 200V 240V	Hp (A) Hp (A) Hp (A) Hp (A)	1,5 (20) 3 (17) 5 (16,7) 7,5 (22)
ohase - 3 pole		240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14)
phase - 2 pole phase - 3 pole echanical characteristics		240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14)
phase - 2 pole  phase - 3 pole  phase in the state of the		240V 200V 240V 480V 600V	Hp (A)	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)
ses size (Class RK5, 600vac, 200kA A.I.C.)  ated operating power  phase - 2 pole  phase - 3 pole  sechanical characteristics anel tickness echanical life		240V 200V 240V 480V 600V	Hp (A)	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)
echanical characteristics  mel tickness echanical life		240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup>	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11) 4
ted operating power phase - 2 pole phase - 3 pole  echanical characteristics mel tickness echanical life ponnection according to IEC 9471-1 and EN 50947-1	With flexible wires	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup>	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11) 4 2 120
ted operating power phase - 2 pole phase - 3 pole  echanical characteristics mel tickness echanical life ponnection according to IEC 9471-1 and EN 50947-1	With flexible wires	240V 200V 240V 480V 600V Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11) 4 2 120 2x1,5-4
ted operating power phase - 2 pole phase - 3 pole  echanical characteristics mel tickness echanical life ponnection according to IEC 9471-1 and EN 50947-1		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11) 4 2 120 2x1,5-4 16-10
echanical characteristics nel tickness echanical life innection according to IEC 9471-1 and EN 50947-1 innecting capability	With flexible wires With solid wires	240V 200V 240V 480V 600V Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm AWG mm²	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6
echanical characteristics unel tickness echanical life  connection according to IEC 9471-1 and EN 50947-1 connection terminal screw dimensions		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6 M3,5
echanical characteristics  echanical life  ennection according to IEC 9471-1 and EN 50947-1  connection terminal screw dimensions  rew tightening torque		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm AWG mm²	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6
echanical characteristics echanical life  enterior according to IEC 9471-1 and EN 50947-1  enterior acpability  enterior acrow dimensions  rew tightening torque enterior degree IEC 529 EN 60529		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type Nm	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6 M3,5
echanical characteristics  echanical life  connection according to IEC 9471-1 and EN 50947-1  connecting capability  connection terminal screw dimensions  rew tightening torque  otection degree IEC 529 EN 60529  erminals		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6 M3,5
echanical characteristics  echanical life  ennection according to IEC 9471-1 and EN 50947-1  ennecting capability  ennection terminal screw dimensions  rew tightening torque  otection degree IEC 529 EN 60529  rminals  mbient conditions		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm  Cycles/hr  mm² AWG mm² Type Nm	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6 M3,5 1
ted operating power phase - 2 pole  phase - 3 pole  echanical characteristics mel tickness echanical life  onnection according to IEC 9471-1 and EN 50947-1  onnecting capability  onnection terminal screw dimensions rew tightening torque otection degree IEC 529 EN 60529  rminals mbient conditions perating ambient temperature		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type Nm IP	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6 M3,5 1
echanical characteristics echanical life  enterior according to IEC 9471-1 and EN 50947-1  enterior acpability  enterior acrow dimensions  rew tightening torque enterior degree IEC 529 EN 60529		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm  Cycles/hr  mm² AWG mm² Type Nm	1,5 (20) 3 (17) 5 (16,7) 7,5 (22) 10 (14) 10 (11)  4 2 120  2x1,5-4 16-10 2x1,5-6 M3,5

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