

Via castellazzo 9 - 20040 Cambiago (MI)

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www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

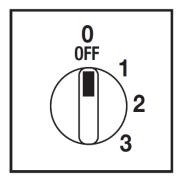
Cod. CR016MZ33RT6



(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



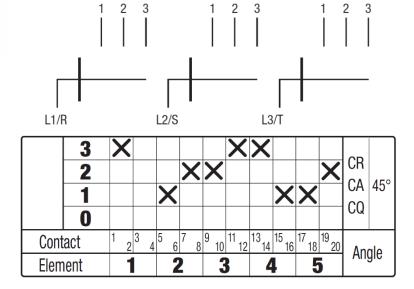
Technical characteristics: Body

- Multi step switch with OFF 2 pole 4 steps
- IP20 Protection degree
- Rated operational current le: 16A
- Rated thermal current Ith: 20A
- 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



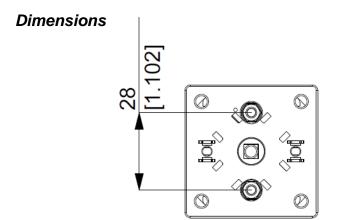


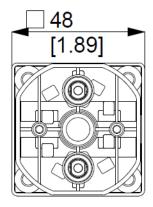
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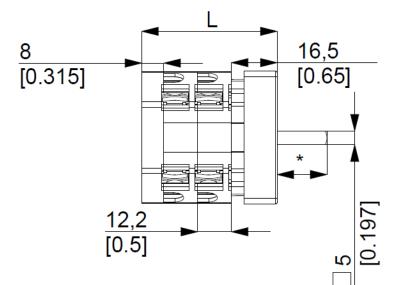
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measures in mm (in)

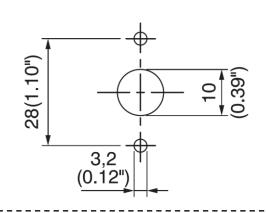


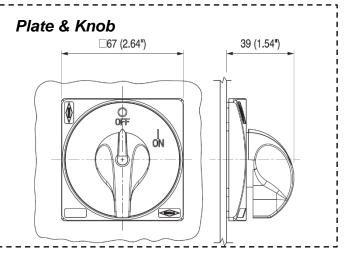




* Sporgenza / Ledge 18,00mm L Lunghezza / Length 85,50mm

Drilling templates







Bremas Ersce SpA
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ated insulation voltage		Ui	V	690
ated operating voltage		Ue	V	690
sted impulse withstand voltage		Uimp	kV	6
ited thermal current for open switch		Ith	A	20
sted thermal current for enclosed switch		Ithe	Α Α	20
		itile	Hz	
ated operation frequency				50/60
ower dissipation for each pole			W	0,5
ated operating current				
C-21A Switching resistive loads, including moderate overloads		le	A	16
C-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	Α	16
C-20A Connecting and disconnecting under no loads conditions				-
nted operating power				
C-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole		230V	Kw (A)	4 (14)
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		400V	Kw (A)	7,5 (14)
		500V	Kw (A)	
		690V	Kw (A)	-
-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	1,1 (12)
AC 2 Control of the state of th		230V	Kw (A)	2,2 (14)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	3,7 (12)
		400V	Kw (A)	5,5 (10)
		500V	Kw (A)	-
		690V	Kw (A)	-
-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	0,75 (9)
		230V	Kw (A)	1,5 (8)
		400V	Kw (A)	-
-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	-
		400V	Kw (A)	-
-15 Control of a.c electromagnetic loads		230V	A	6
15 control of the electromagnetic loads		400V	Α Α	4
tool broading comphility in AC 22A (and up-0.45)		230V	A	112
ted breaking capability in AC-23A (cos φ=0,45)				
		400V	A	112
ort circuit protection				
ted short time withstand current		lcw	A	240
ted short-circuit make capacity		Icm	A	-
ted conditional short-circuit current		-	kA	4
ith fuses class gG		500V	Α	20
chnical data UL/CSA				
ted operating voltage		Ue	UL/CSA V	600/-
eneral use current		le	UL/CSA A	16
ort circuit rating @600Vac			Arms	5000
-				
se size (Class RK5, 600Vac, 200kA A.I.C.)			Α	25 (30)
		120V	Нр (А)	1 (16)
hase - 2 pole		240V	Hp (A)	2 (12)
hase - 2 pole				
hase - 2 pole		240V	Hp (A)	2 (12)
hase - 2 pole		240V 200V	Hp (A) Hp (A)	2 (12) 2 (7,8)
hase - 2 pole		240V 200V 240V	Нр (A) Нр (A) Нр (A)	2 (12) 2 (7,8) 3 (9,6)
hase - 2 pole hase - 3 pole		240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A)	2 (12) 2 (7,8) 3 (9,6) 7,5 (11)
ted operating power shase - 2 pole shase - 3 pole schanical characteristics nel thickness		240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A)	2 (12) 2 (7,8) 3 (9,6) 7,5 (11)
phase - 2 pole phase - 3 pole		240V 200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9)
phase - 2 pole phase - 3 pole echanical characteristics		240V 200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) mm Cycles x 106	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9)
chanical characteristics chanical life		240V 200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4
hase - 2 pole Anaical Characteristics The I thickness Chanical life Annection according to IEC 9471-1 and EN 50947-1	With flavible wires	240V 200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2
chanical characteristics let thickness chanical life nection according to IEC 9471-1 and EN 50947-1	With flexible wires	240V 200V 240V 480V 600V Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4
hase - 2 pole Anaical Characteristics The I thickness Chanical life Annection according to IEC 9471-1 and EN 50947-1		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10
chanical characteristics el thickness chanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability	With flexible wires With solid wires	240V 200V 240V 480V 600V Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6
hase - 2 pole hase - 3 pole schanical characteristics nel thickness schanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10
hase - 2 pole hase - 3 pole schanical characteristics nel thickness schanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability nnection terminal screw dimensions		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Mm Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ²	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6
chase - 2 pole chanical characteristics nel thickness		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
hase - 2 pole schanical characteristics hel thickness schanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability nnection terminal screw dimensions ew tightening torque stection degree IEC 529 EN 60529		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
hase - 2 pole schanical characteristics nel thickness schanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability nnection terminal screw dimensions ew tightening torque		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
hase - 2 pole chanical characteristics el thickness chanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability nnection terminal screw dimensions ew tightening torque tection degree IEC 529 EN 60529 minals bient conditions		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
hase - 2 pole hase - 3 pole schanical characteristics nel thickness schanical life nnection according to IEC 9471-1 and EN 50947-1 nnecting capability nnecting capability nnection terminal screw dimensions ew tightening torque scheint ordgree IEC 529 EN 60529 minals scheint conditions erating ambient temperature		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1
chanical characteristics chanical characteristics lel thickness chanical life anection according to IEC 9471-1 and EN 50947-1 anecting capability anection terminal screw dimensions ew tightening torque tection degree IEC 529 EN 60529 minals bient conditions		240V 200V 240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5