

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

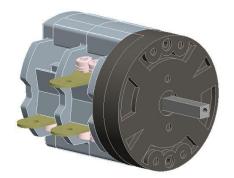
Cod. CA2000003PL4

Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL508
- Suitable as Manual Motor Controller







(Purely indicative image)



PL4

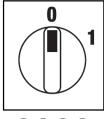
Technical characteristics: Body

- IP00 Protection degree
- Rated operational current le: 160A
- Rated thermal current Ith: 200A
- Rated insulation voltage Ui: 690V
- · Rear Mounting
- Fixing with 4 screw at 30x90mm
- Switching angle: 60°
- Body in thermosetting material
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

Technical characteristics: Knob

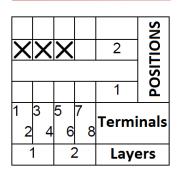
- Transparent plate 130x130mm and black knob
- · IP40 Protection degree
- Fixing with 4 screws at 30x90mm

Positions

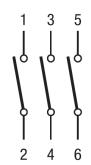


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Electrical diagram



Electrical function



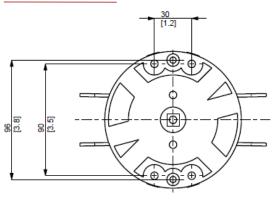


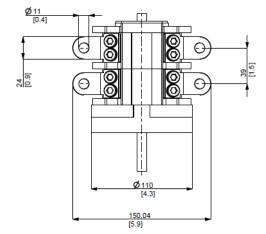
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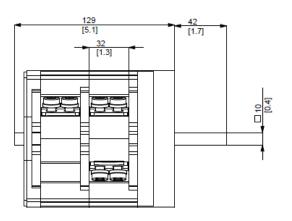
Dimensions

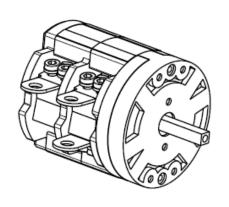




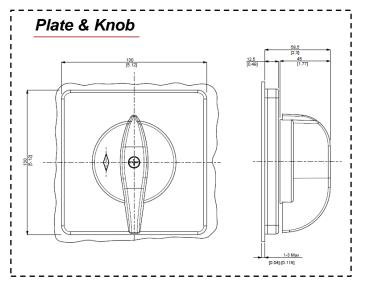
measures in mm (in)

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Drilling template





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Fechnical data IEC 947-3 EN 60947-3		11:	V	600
Rated insulation voltage		Ui	V	690
Rated operating voltage		Ue 		690
Rated impulse withstand voltage		Uimp	kV	6
Rated thermal current for open switch		Ith	A	200
Rated thermal current for enclosed switch		Ithe	Α	160
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	7
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		le	Α	160 ⁵
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	Α	160
AC-20A Connecting and disconnecting under no loads conditions				-
lated operating power				
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole		230V	Kw (A)	40 (125)
		400V	Kw (A)	59 (106)
		500V	Kw (A)	75 (108)
		690V	Kw (A)	
CC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V		
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole			Kw (A)	11 (125)
		230V	Kw (A)	22 (120)
		230V	Kw (A)	30 (95)
	400V	Kw (A)	45 (82)	
		500V	Kw (A)	59 (85)
		690V	Kw (A)	-
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	9 (102)
		230V	Kw (A)	15 (82)
		400V	Kw (A)	-
AC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	-
		400V	Kw (A)	-
C-15 Control of a.c electromagnetic loads		230V	Α	
to 15 control of all electromagnetic loads		400V	A	
loted brooking conchility in AC 224 (cos (c-0.45)		230V	A	1000
Rated breaking capability in AC-23A (cos φ=0,45)				
		400V	A	848
Short circuit protection				
Rated short time withstand current		Icw	A	2000
Rated short-circuit make capacity		Icm	Α	3000
Rated conditional short-circuit current		-	kA	15
Nith fuses class gG		500V	Α	200
Fechnical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600/-
General use current		le	UL/CSA A	240/-
hort circuit rating @600Vac			Arms	-
iuse size (Class RK5, 600Vac, 200kA A.I.C.)			A	-
Rated operating power				
phase - 2 pole		120V	Hp (A)	
1 pnase - 2 poie				-
		24017		
ober 2 ode		240V	Hp (A)	-
phase - 3 pole		200V	Hp (A)	-
phase - 3 pole		200V 240V	Hp (A) Hp (A)	-
phase - 3 pole		200V 240V 480V	Hp (A)	
phase - 3 pole		200V 240V	Hp (A) Hp (A)	-
phase - 3 pole Mechanical characteristics		200V 240V 480V	Hp (A) Hp (A) Hp (A)	-
		200V 240V 480V	Hp (A) Hp (A) Hp (A)	-
Леchanical characteristics		200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A)	
Aechanical characteristics Aechanical life		200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶	
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr	0,1
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr	0,1 120
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG	0,1 120 50-70 ¹
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability	With flexible wires With solid wires	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ²	0,1 120 50-70 ¹ 1/0-2/0 16-35
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type	- 0,1 120 50-70 ¹ 1/0-2/0 16-35 M10
Aechanical characteristics Aechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Corew tightening torque	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ²	0,1 120 50-70 ¹ 1/0-2/0 16-35
Aechanical characteristics Aechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Cornection terminal torque Protection degree IEC 529 EN 60529	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm	50-70 ¹ 1/0-2/0 16-35 M10 23
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque Protection degree IEC 529 EN 60529 Terminals	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type	0,1 120 50-70 ¹ 1/0-2/0 16-35 M10
Aechanical characteristics Aechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Cornection terminal torque Protection degree IEC 529 EN 60529	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm	50-70 ¹ 1/0-2/0 16-35 M10 23
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque Protection degree IEC 529 EN 60529 Terminals	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm	50-70 ¹ 1/0-2/0 16-35 M10 23
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque Protection degree IEC 529 EN 60529 erminals Ambient conditions Operating ambient temperature	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm	- 0,1 120 50-70 ¹ 1/0-2/0 16-35 M10 23
Mechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque Protection degree IEC 529 EN 60529 Terminals Umbient conditions	-	200V 240V 480V 600V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	- 0,1 120 50-70 1 1/0-2/0 16-35 M10 23 00

Note:

 $^{^{1}}$ = M10 bolt clamps with Nut

⁵ = a 500V