

 Bremas Ersce SpA

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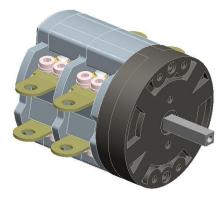
 Fax +39 02 95651639

 www.bremas.eu

 info@bremas.it

ISO 9001 Certified Quality System

Cod. CA200004PL4



(Purely indicative image)



Standard and Approvals

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

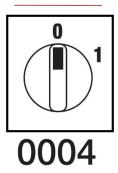
Technical characteristics: Body

- 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.

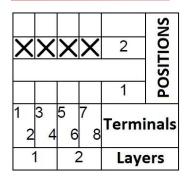
Technical characteristics: Knob

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

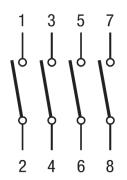
Positions



Electrical diagram



Electrical function



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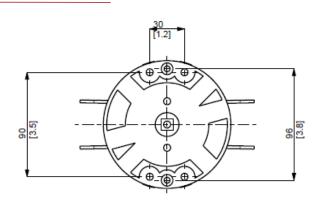
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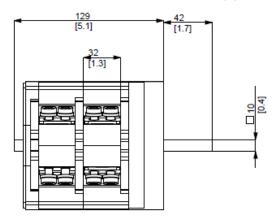
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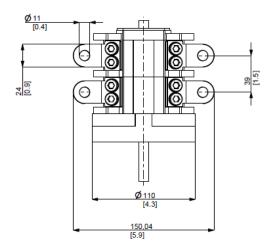
measures in mm (in)

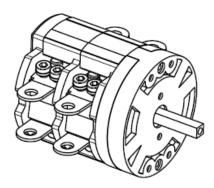
Cod. CA2000004PL4

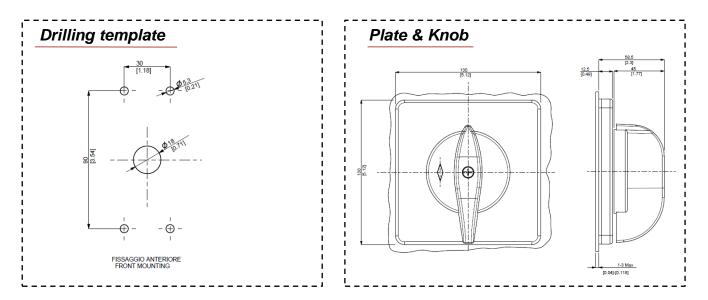
Dimensions











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Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage		Ui	V	690
Rated insulation voltage		Ue	V V	690
		Uimp	kV	6
Rated impulse withstand voltage		lth	A	200
Rated thermal current for open switch				
Rated thermal current for enclosed switch		Ithe	A	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	A	160 ⁵
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	160
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)	40 (125)
		400V	Kw (A)	59 (106)
		500V	Kw (A)	75 (108)
		690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	11 (125)
		230V	Kw (A)	22 (120)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	30 (95)
AC-5 Squirrer cage motors, starting, switching on motors during running 5 priase - 5 pole				
		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)	-
AC-15 Control of a.c electromagnetic loads		230V	A	-
		400V	A	-
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	1000
hated breaking capability in AC-25A (cos ψ =0,45)				
		400V	A	848
Short circuit protection				
Rated short time withstand current		lcw	A	2000
Rated short-circuit make capacity		lcm	A	3000
Rated conditional short-circuit current		-	kA	15
With fuses class gG		500V	A	200
Technical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600/-
General use current		le	UL/CSA A	240/-
Short circuit rating @600Vac			Arms	-
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)			A	-
Rated operating power				
1 phase - 2 pole		120V	Hp (A)	
2 phone 2 polo		240V	Hp (A)	
3 phase - 3 pole		200V	Hp (A)	-
		240V	Hp (A)	-
		480V	Hp (A)	-
		600V	Hp (A)	-
Mechanical characteristics			Cycles x 10 ⁶	0,1
Mechanical characteristics Mechanical life				
			Cycles/hr	120
		-	Cycles/hr	120
Mechanical life	With flexible wires	Min-Max	Cycles/hr mm²	120 50-70 ¹
Mechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires		mm²	50-70 ¹
Mechanical life Connection according to IEC 9471-1 and EN 50947-1		Min-Max	mm² AWG	50-70 ¹ 1/0-2/0
Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability	With flexible wires		mm² AWG mm²	50-70 ¹ 1/0-2/0 16-35
Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions		Min-Max	mm² AWG mm² Type	50-70 ¹ 1/0-2/0 16-35 M10
Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque		Min-Max	mm² AWG mm²	50-70 ¹ 1/0-2/0 16-35
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		Min-Max	mm² AWG mm² Type Nm	50-70 ¹ 1/0-2/0 16-35 M10 23
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		Min-Max	mm² AWG mm² Type	50-70 ¹ 1/0-2/0 16-35 M10
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		Min-Max	mm² AWG mm² Type Nm IP	50-70 ¹ 1/0-2/0 16-35 M10 23
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		Min-Max	mm² AWG mm² Type Nm	50-70 ¹ 1/0-2/0 16-35 M10 23
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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 Operating ambient temperature		Min-Max	mm² AWG mm² Type Nm IP	50-70 ¹ 1/0-2/0 16-35 M10 23 00 -25 ÷ +55

Note:

¹ = M10 bolt clamps with Nut

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⁵ = a 500V