BREMAS

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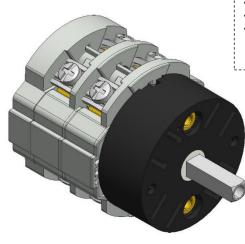
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ISO 9001 Certified Quality System

Cod. CA020006PL2



(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

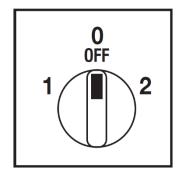


- Change-over switch 2 pole
- IP00 Protection degree
- Rated operational current le: 20A (AC-21A)
- Rated thermal current Ith: 25A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

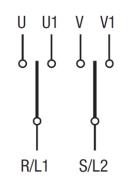
Technical characteristics: Knob

- Transparent plate 75,5x75,5mm and black knob
- Fixing with 2 screws at 28mm vertical
- IP 40 Protection degree

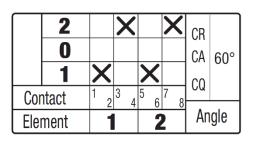
Positions



Electrical diagram



Electrical function



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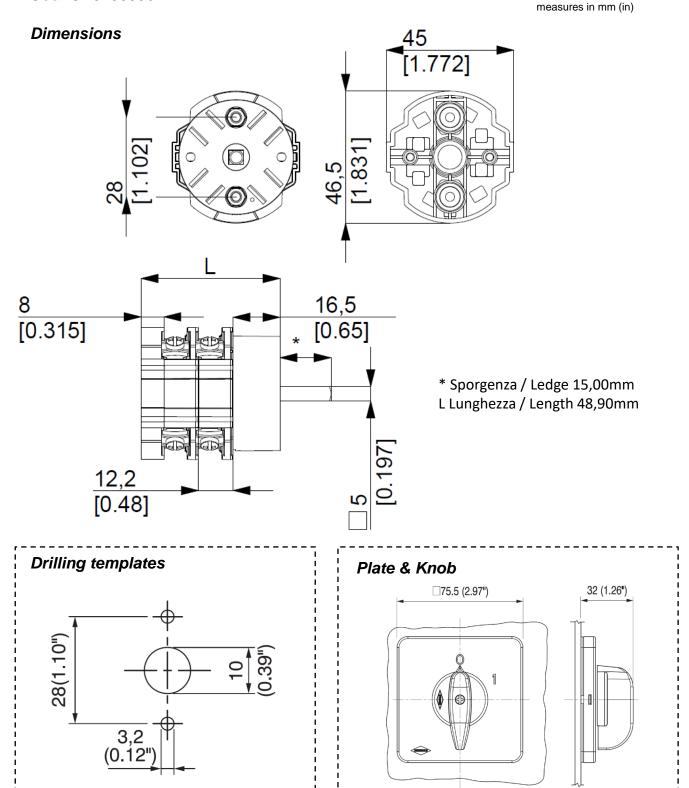




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Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage		Ui	v	690
Rated operating voltage		Ue	v	690
Rated impulse withstand voltage		Uimp	kV	6
Rated thermal current for open switch		lth	A	25
Rated thermal current for enclosed switch		Ithe	A	25
Rated operation frequency		itile	Hz	50/60
Power dissipation for each pole			W	1
			VV	1
Rated operating current		1-	•	20
AC-21A Switching resistive loads, including moderate overloads		le	A	20
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	16
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)	5,5 (17)
		400V	Kw (A)	9 (16)
		500V	Kw (A)	9 (13)
		690V	Kw (A)	9 (9)
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	1,1 (12)
		230V	Kw (A)	3 (17)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	4 (13)
		400V	Kw (A)	7,5 (14)
		500V	Kw (A)	7,5 (11)
		690V	Kw (A)	7,5 (8)
AC-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)
AC-4 Squirrel cage motors: starting, pluggign, inching AC-15 Control of a.c electromagnetic loads		230V	Kw (A)	1,5 (4,5)
		400V	Kw (A)	2,2 (2,6)
		230V	A	7
		400V	А	5
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	136
		400V	A	128
Short circuit protection		1001	~	110
Rated short time withstand current		lcw	A	240
Rated short-circuit make capacity		lcm	A	1500
Rated conditional short-circuit current		-	kA	5
With fuses class gG		500V	A	20
Technical data UL/CSA		5007	~	20
Rated operating voltage		Ue	UL/CSA V	600/300
General use current		le	UL/CSA A	20/16
Short circuit rating @600Vac		ie	Arms	5000
			A	60
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)			A	60
Rated operating power		1201/	11- (A)	1.5 (20)
1 phase - 2 pole		120V	Hp (A)	1,5 (20)
		240V	Hp (A)	3 (17)
3 phase - 3 pole		200V	Hp (A)	5 (16,7)
		240V	Hp (A)	7,5 (22)
		480V	Hp (A)	10 (14)
		600V	Hp (A)	10 (11)
Mechanical characteristics				1
Panel tickness		Max	mm	4
Mechanical life		-	Cycles x 10 ⁶	2
			Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1				1
	With flexible wires	Min-Max	mm²	2x1,5-4
Connecting capability		Min-Max	AWG	16-10
Connecting capability		Min-Max	mm²	2x1,5-6
Connecting capability	With solid wires			
	With solid wires		Туре	M3,5
Connecting capability Connection terminal screw dimensions Screw tightening torque	With solid wires			M3,5 1
Connection terminal screw dimensions	With solid wires		Туре	
Connection terminal screw dimensions Screw tightening torque	With solid wires		Туре	
Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529	With solid wires		Type Nm	1
Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions	With solid wires		Type Nm IP	00
Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature	With solid wires		Type Nm IP °C	1 00 -25 ÷ +55
Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions	With solid wires		Type Nm IP	00

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