BREMAS

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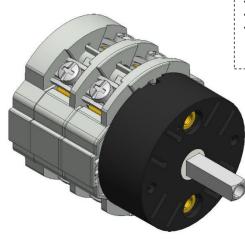
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ISO 9001 Certified Quality System

Cod. CA0200039PL2



(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

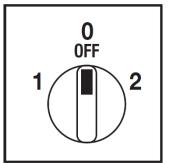


- Change-over switch 4 pole
- IP00 Protection degree
- Rated operational current le: 20A (AC-21A)
- Rated thermal current Ith: 25A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

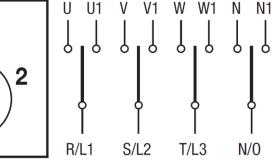
Technical characteristics: Knob

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

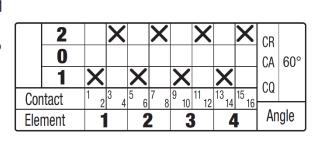
Positions







Electrical function



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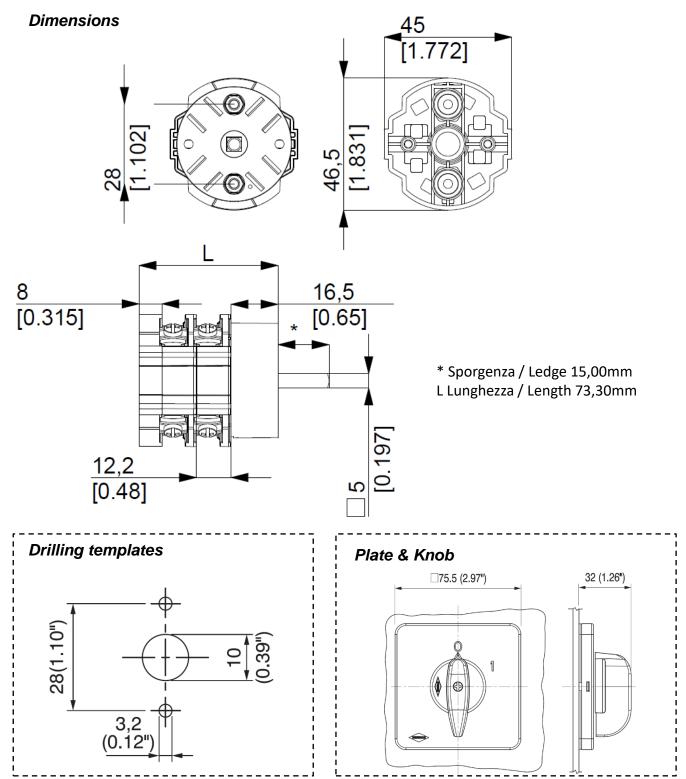




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measures in mm (in)



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Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage		Ui	V	690
ated operating voltage		Ue	V	690
ated impulse withstand voltage		Uimp	kV	6
tated thermal current for open switch		Ith	А	25
ated thermal current for enclosed switch		Ithe	А	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	А	20
C-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	А	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 (12)
		230V	Kw (A)	3 (17)
C-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)
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)
AC-15 Control of a.c electromagnetic loads		230V	A	7
		400V	A	5
tated breaking capability in AC-23A (cos φ =0,45)		230V	А	136
		400V	Α	128
ihort circuit protection				
ated short time withstand current		lcw	A	240
tated short-circuit make capacity		lcm	А	1500
ated conditional short-circuit current		-	kA	5
Vith fuses class gG		500V	А	20
echnical data UL/CSA				
ated operating voltage		Ue	UL/CSA V	600/300
General use current		le	UL/CSA A	20/16
hort circuit rating @600Vac			Arms	5000
use size (Class RK5, 600Vac, 200kA A.I.C.)			А	60
ated operating power				
phase - 2 pole		120V	Hp (A)	1,5 (20)
		240V	Hp (A)	3 (17)
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)
Aechanical characteristics				,
anel tickness		Max	mm	4
			Cycles x 10 ⁶	2
Aechanical life				
Aechanical life		-	Cycles/hr	120
			Cycles/hr	120
onnection according to IEC 9471-1 and EN 50947-1	With flexible wires	Min-Max	Cycles/hr mm²	
onnection according to IEC 9471-1 and EN 50947-1	With flexible wires		mm²	2x1,5-4
onnection according to IEC 9471-1 and EN 50947-1		Min-Max	mm² AWG	2x1,5-4 16-10
ionnection according to IEC 9471-1 and EN 50947-1 ionnecting capability	With flexible wires With solid wires		mm² AWG mm²	2x1,5-4 16-10 2x1,5-6
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions		Min-Max	mm² AWG mm² Type	2x1,5-4 16-10 2x1,5-6 M3,5
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque		Min-Max	mm² AWG mm²	2x1,5-4 16-10 2x1,5-6
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		Min-Max	mm² AWG mm² Type Nm	2x1,5-4 16-10 2x1,5-6 M3,5 1
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque rotection degree IEC 529 EN 60529 ferminals		Min-Max	mm² AWG mm² Type	2x1,5-4 16-10 2x1,5-6 M3,5
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque rotection degree IEC 529 EN 60529 ferminals combient conditions		Min-Max	mm² AWG mm² Type Nm IP	2x1,5-4 16-10 2x1,5-6 M3,5 1
Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions crew tightening torque rotection degree IEC 529 EN 60529 reminals combient conditions Operating ambient temperature		Min-Max	mm² AWG mm² Type Nm IP IP	2x1,5-4 16-10 2x1,5-6 M3,5 1 00 -25 ÷ +55
Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Connection terminal screw dimensions Connection degree IEC 529 EN 60529 Forettion degree IEC 529 EN 60529 Forminals Combinet conditions Deperating ambient temperature Corage ambient temperature Vithstand to constant humid according to IEC 60068		Min-Max	mm² AWG mm² Type Nm IP	2x1,5-4 16-10 2x1,5-6 M3,5 1

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