

 Bremas Ersce SpA

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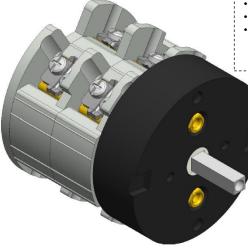
 Fax +39 02 95651639

 www.bremas.eu

 info@bremas.it

ISO 9001 Certified Quality System

## Cod. CA0630006PL3



(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

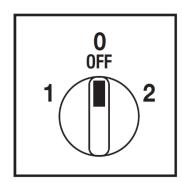
# Technical characteristics: Body

- Change-over switch 2 pole
- IP00 Protection degree
- Rated operational current le: 75A (AC-21A)
- Rated thermal current Ith: 80A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 40mm 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.

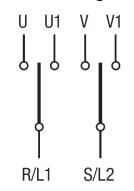
### Technical characteristics: Knob

- Transparent plate 105x105mm and black knob
- Fixing with 2 screws at 40mm vertical
- IP 40 Protection degree

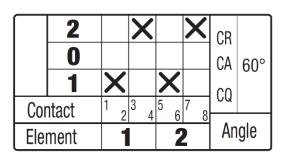
**Positions** 



#### Electrical diagram



# Electrical function



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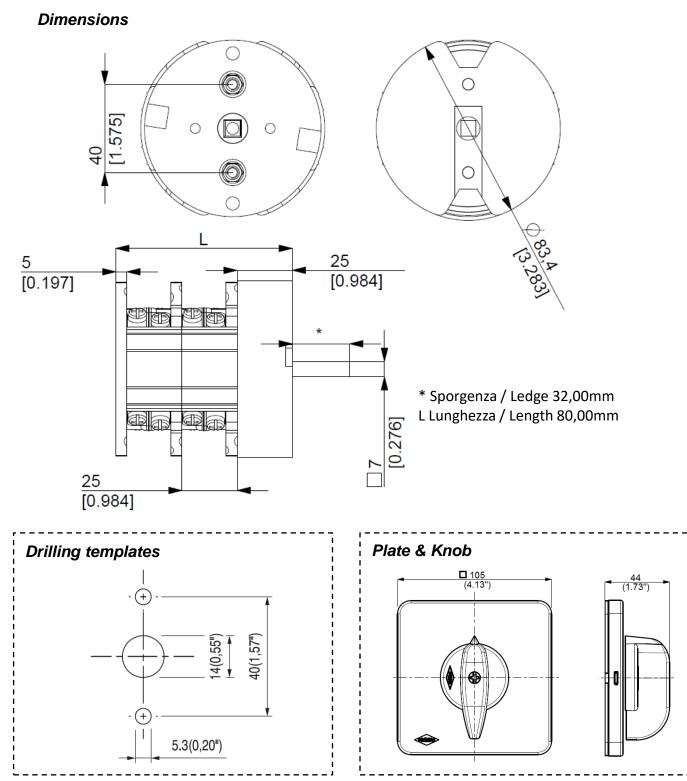
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measures in mm (in)



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Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage		Ui	V	690
Rated operating voltage		Ue	V	690
Rated impulse withstand voltage		Uimp	kV	6
Rated thermal current for open switch		Ith	А	80
Rated thermal current for enclosed switch		Ithe	А	80
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	2,5
Rated operating current				/-
AC-21A Switching resistive loads, including moderate overloads		le	A	75
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	63 <sup>1</sup>
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)	18,5 (58)
AC-23A Switching of motor loads of other ringing inductive loads 3 priase - 3 pole	400V	Kw (A)	30 (54)	
		500V	Kw (A)	22 (32)
		690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	5,5 (63)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	10 (32)
		230V 230V	Kw (A)	10 (32)
		400V	KW (A)	22 (40)
		500V	KW (A) Kw (A)	22 (40)
		690V		- 22 (32)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	
AC-3 Squirrei cage motors: starting, swticning oπ motors during running 1 phase - 2 pole		-	Kw (A)	4 (45)
		230V	Kw (A)	7,5 (40)
		400V	Kw (A)	
AC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	5,5 (17)
		400V	Kw (A)	7,5 (14)
AC-15 Control of a.c electromagnetic loads		230V	A	-
		400V	A	-
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	464
		400V	A	432
Short circuit protection		· · ·	<u> </u>	
Rated short time withstand current		lcw	A	800
Rated short-circuit make capacity		lcm	A	2500
Rated conditional short-circuit current		-	kA	15
With fuses class gG		500V	A	63
Technical data UL/CSA			111 /00 1 1/	
Rated operating voltage		Ue	UL/CSA V	600/600
General use current		le	UL/CSA A	85/63
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)	7,5 (80)/-
		240V	Hp (A)	10 (50)/-
3 phase - 3 pole		200V	Hp (A)	20 (62,1)/-
		240V	Hp (A)	20 (54)/-
		480V	Hp (A)	30 (40)/-
		600V	Hp (A)	40 (41)/50
Mechanical characteristics			Cycles x 10 <sup>6</sup>	1
Mechanical life			Cycles/hr	120
Mechanical life Connection according to IEC 9471-1 and EN 50947-1			Cycles/hr	
Nechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires	Min-Max		6-16
Nechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires	Min-Max Min-Max	Cycles/hr	
Vechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires With solid wires		Cycles/hr mm <sup>2</sup>	6-16
Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability		Min-Max	Cycles/hr mm <sup>2</sup> AWG	6-16 10-6
Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions		Min-Max	Cycles/hr mm <sup>2</sup> AWG mm <sup>2</sup>	6-16 10-6 10-25
Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque		Min-Max	Cycles/hr mm <sup>2</sup> AWG mm <sup>2</sup> Type	6-16 10-6 10-25 2xM5
Vechanical 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	Cycles/hr mm <sup>2</sup> AWG mm <sup>2</sup> Type	6-16 10-6 10-25 2xM5
Vechanical 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 Ferminals		Min-Max	Cycles/hr mm² AWG mm² Type Nm	6-16 10-6 10-25 2xM5 2,8
Vechanical 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 Ferminals Ambient conditions		Min-Max	Cycles/hr mm² AWG mm² Type Nm	6-16 10-6 10-25 2xM5 2,8
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	Cycles/hr mm <sup>2</sup> AWG mm <sup>2</sup> Type Nm IP	6-16 10-6 10-25 2xM5 2,8 00
Mechanical life		Min-Max	Cycles/hr mm <sup>2</sup> AWG mm <sup>2</sup> Type Nm IP	6-16 10-6 10-25 2xM5 2,8 00 -25 ÷ +55

Notes: <sup>1</sup> = at 500V

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