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www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

#### Cod. CR0400007RT6



(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



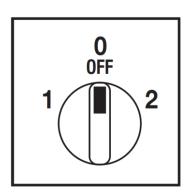
## Technical characteristics: Body

- Three-pole switch
- IP20 Protection degree
- Rated operational current le: 40A (AC-21A)
- Rated thermal current Ith: 50A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with: 2 screw at 28mm vertical
  - 2 screw at 32mm horizontal
- 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.

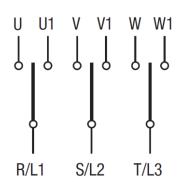
### Technical characteristics: Knob

- Grey plate 67x67mm and black knob
- IP66 Protection degree
- Fixing:- 2 screw at 28mm vertical
  - 2 screw at 32mm horizontal

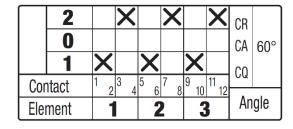
**Positions** 



Electrical diagram



# Electrical function



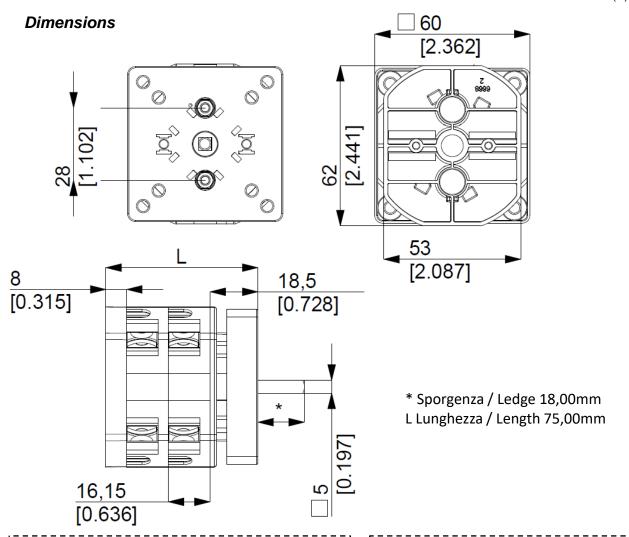
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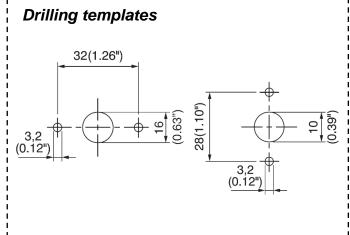
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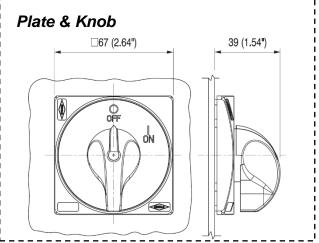
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measures in mm (in)

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Technical data IEC 947-3 EN 60947-3				500
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	50
Rated thermal current for enclosed switch		Ithe	A	50
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	1,3
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		le	A	40
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	32
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)	10 (32)
		400V	Kw (A)	18,5 (30)
		500V	Kw (A)	18,5 (27)
		690V	Kw (A)	18,5 (19)
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	3 (34)
		230V	Kw (A)	5,5 (30)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	7,5 (24)
		400V	Kw (A)	15 (27)
		500V	Kw (A)	15 (22)
		690V	Kw (A)	16 (16)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole  AC-4 Squirrel cage motors: starting, pluggign, inching		110V	Kw (A)	2,2 (25)
		230V	Kw (A)	4,5 (25)
		400V	Kw (A)	-
		230V	Kw (A)	3 (10)
		400V	Kw (A)	5,5 (10)
AC-15 Control of a.c electromagnetic loads		230V	Α	10
		400V	A	8
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	256
nated breaking capability in AC-25A (cos ψ=0,45)		400V	A	240
Short circuit protection		4007	A	240
Rated short time withstand current		Icw	A	500
Rated short-circuit make capacity			A	2000
Rated conditional short-circuit current		lcm -	kA	10
		500V	A	50
With fuses class gG		3007	A	30
Technical data UL/CSA		11-	LIL /CCA M	500/500
Rated operating voltage		Ue .	UL/CSA V	600/600
General use current		le	UL/CSA A	40/32
Short circuit rating @600Vac			Arms	5000
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)			A	60
Rated operating power				
1 phase - 2 pole		120V	Hp (A)	3 (34)/2,5
		240V	Hp (A)	7,5 (40)/4,5
3 phase - 3 pole		200V	Hp (A)	10 (32,2)/-
		240V	Hp (A)	15 (42)/9,5
		480V	Hp (A)	20 (27)/20
		600V	Hp (A)	20 (22)/25
Mechanical characteristics				
Panel tickness		Max	mm	4
Mechanical life			Cycles x 10 <sup>6</sup>	1,5
			Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1				
Connecting capability	With flexible wires	Min-Max	mm²	2x2,5-10
		Min-Max	AWG	14-8
	With solid wires	Min-Max	mm²	2x2,5-16
			Туре	M4
Connection terminal screw dimensions				
Connection terminal screw dimensions Screw tightening torque			Nm	1,2
Screw tightening torque				1,2
Screw tightening torque Protection degree IEC 529 EN 60529				20
crew tightening torque Protection degree IEC 529 EN 60529 Terminals			Nm	
Screw tightening torque Protection degree IEC 529 EN 60529 Ferminals Ambient conditions			Nm IP	20
Screw tightening torque Protection degree IEC 529 EN 60529 Ferminals Ambient conditions Operating ambient temperature			Nm IP °C	20 -25 ÷ +55
Screw tightening torque  Protection degree IEC 529 EN 60529  Ferminals  Ambient conditions  Operating ambient temperature  Storage ambient temprature			Nm IP	20 -25 ÷ +55 -30 ÷ +70
ocrew tightening torque  Protection degree IEC 529 EN 60529  Terminals  Ambient conditions  Operating ambient temperature			Nm IP °C	20 -25 ÷ +55

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