Bremas Ersce SpA
Via castellazzo 9 – 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.it info@bremas.it

ISO 9001 Certified Quality System

Cod. CR0200011RT6

Standards and Approvals

- Switch according to IEC/EN 60947-3 certified by TUV
- Suitable as Manual Motor Controller
- UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1.

(purely indicative photo)

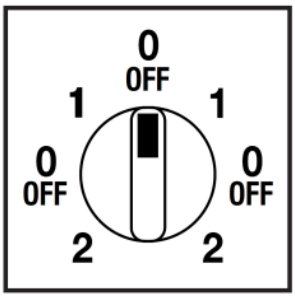
Technical characteristics: Body

- IP20 Protection degree
- Rated operational current In: 20A
- Rated thermal current Ith: 25A
- Rated insulation voltage Ui: 690V
- Rear Mounting
- Fixing: - 2 screws at 28mm vertical
- Number of elements: 6
- Switching angle: 45°
- 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

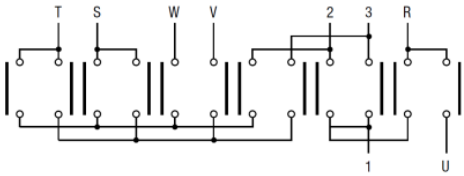
Technical characteristics: Plate and knob

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

Plate and positions



Electrical scheme



Electrical function

	2	X			X	X	X			X	X		X
	0												
	1	X			X			X	X			X	
	0												
	1		X	X				X	X			X	
	0												
	2		X	X		X	X			X	X		X
Contatto		1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24
Elemento		1		2		3		4		5		6	

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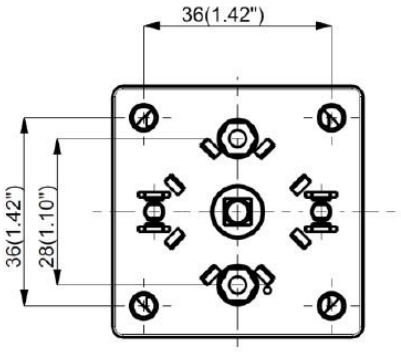
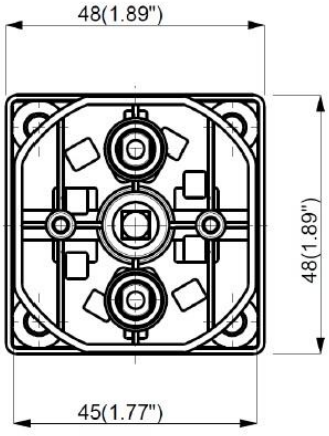
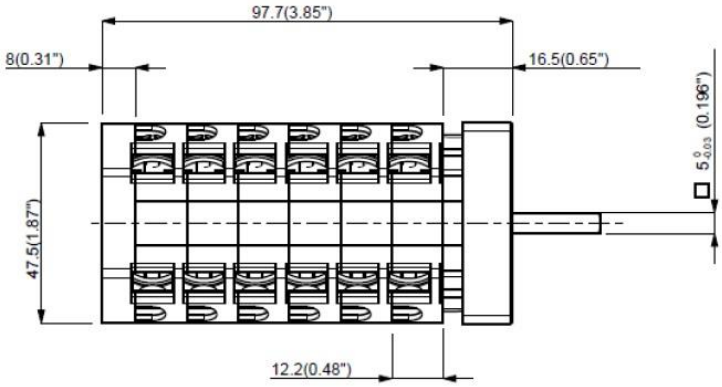
Dimensions

measures in mm (in)







Drilling templates

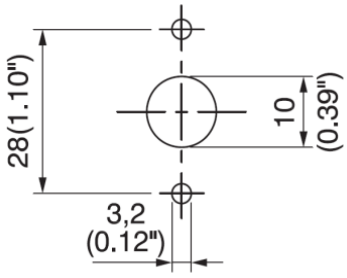
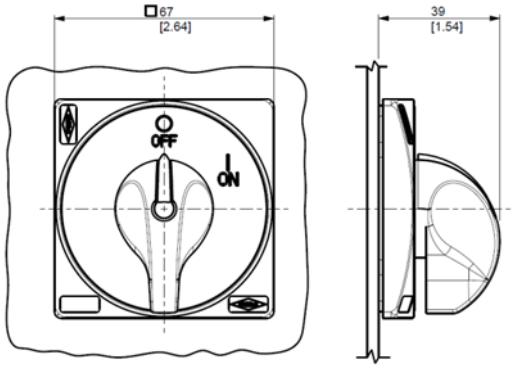


Plate and Knob



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Cod. CR0200011RT6

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	A	25
Rated operation frequency		Ithe	A	25
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	0,4
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		Ie	A	20
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		Ie	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 (5)
		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		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
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	136
		400V	A	128
Short circuit protection				
Rated short time withstand current		Icw	A	240
Rated short-circuit make capacity		Icm	A	1500
Rated conditional short-circuit current		-	kA	5
With fuses class gG		500V	A	20
Technical data UL/CSA				
Rated insulation voltage		Ui	UL/CSA V	600/300
Rated operating voltage		Ue	UL/CSA V	600/300
General use current		Ie	UL/CSA A	20/16
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)	1,5 (20)/-
		240V	Hp (A)	3 (17)/-
3 phase - 3 pole		200V	Hp (A)	5 (17,5)/-
		240V	Hp (A)	5 (15,2)/-
		480V	Hp (A)	10 (14)/-
		600V	Hp (A)	10 (11)/-
Mechanical characteristics				
Mechanical life			Cicli x 10^6	2
			Cicli/ora	120
Connection according to Ie IEC 9471-1 and EN 60947-1				
With flexible wires	With flexible wires	Min-Max	mm^2	2x1,5-4
		Min-Max	AWG	16-10
	With solid wires	Min-Max	mm^2	2x1,5-6
Connection terminal screw dimensions			Tipo	M3,5
Screw tightening torque			Nm	1
Protection degree IEC 529 EN 60529				
Terminals			IP	20
Ambient conditions				
Operating ambient temperature			°C	-25 ÷ +55
Storage ambient temprature			°C	-30 ÷ +70
Withstand to constant humid according to IEC 60068				2-78
Withstand to cyclic humid according to IEC 60068				2-30