Bremas Ersce SpA www.bremas.eu

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ISO 9001 Certified Quality System

Cod. CR012M015RT4

Standard and Approvals

- Switch according to IEC/EN 60947-3
- 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

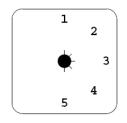
- **IP20** Protection degree
- Rated operational current le: 12A
- Rated thermal current Ith: 16A
- Rated insulation voltage Ui: 690V
- Rear Mounting
- Fixing with 2 screws at 28mm vertical
- Switching angle: 45°
- Class V2 self-extinguishing thermoplastic housing •
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- · Positive opening double break contacts, made of silver and alloy.



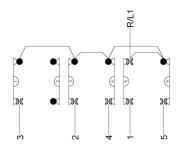
Technical characteristics: Plate and knob

- Grey plate 48x48mm and black knob
- **IP66** Protection degree
- Fixing with 2 screw at 28mm vertical

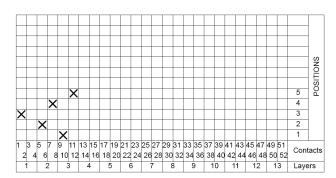
Positions



Electrical scheme



Electrical function



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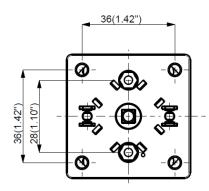
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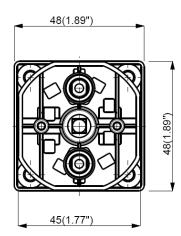
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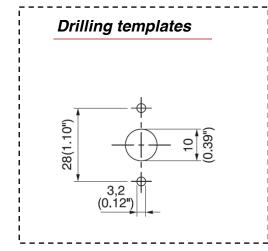
ISO 9001 Certified Quality System

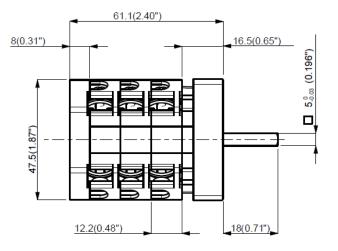
measures in mm (in)

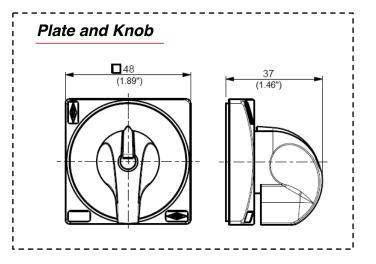
Dimensions











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echnical data IEC 947-3 EN 60947-3				
ated insulation voltage		Ui	V	690
tated operating voltage		Ue	V	690
ated impulse withstand voltage		Uimp	kV	6
Rated thermal current for open switch		Ith	A	16
tated thermal current for enclosed switch		Ithe	A	16
Rated operation frequency			Hz	50/60
ower dissipation for each pole			W	0,27
Rated operating current				
C-21A Switching resistive loads, including moderate overloads		le	A	12
C-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	12
C-20A Connecting and disconnecting under no loads conditions				-
tated operating power				
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole		230V	Kw (A)	3 (9)
		400V	Kw (A)	4 (9)
		500V	Kw (A)	-
		690V	Kw (A)	-
C-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	0,75 (8,5)
		230V	Kw (A)	1,5 (8,5)
C-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	2,2 (7)
		400V	Kw (A)	3,5 (7)
		500V	Kw (A)	-
		690V	Kw (A)	-
C-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	0,37 (4)
		230V	Kw (A)	1,1 (6)
		400V		
			Kw (A)	-
KC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	-
		400V	Kw (A)	-
AC-15 Control of a.c electromagnetic loads		230V	A	4
		400V	A	3
tated breaking capability in AC-23A (cos φ=0,45)		230V	A	72
		400V	Α	72
hort circuit protection				
tated short time withstand current		lcw	А	150
tated short-circuit make capacity		Icm	A	-
ated conditional short-circuit current		-	kA	4
Vith fuses class gG		500V	А	16
echnical data UL/CSA				
tated operating voltage		Ue	UL/CSA V	600/ -
General use current		le	UL/CSA A	12
hort circuit rating @600Vac			Arms	5000
use size (Class RK5, 600Vac, 200kA A.I.C.)			A	60
tated operating power				
phase - 2 pole		120V	Hp (A)	0,5 (9,8)
		-		
nhaca 2 nala		240V	Hp (A)	1,5 (10)
phase - 3 pole		200V	Hp (A)	1,5 (6,9)
		240V	Hp (A)	2 (6,8)
		480V	Hp (A)	3 (4,8)
		600V	Hp (A)	5 (6,1)
Aechanical characteristics				
Panel tickness		Max	mm	4
Aechanical life			Cycles x 10 ⁶	2
			Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1				
Connecting capability	With flexible wires	Min-Max	mm²	2x1,5-4
		Min-Max	AWG	16-10
	With solid wires	Min-Max	mm²	2x1,5-6
Connection terminal screw dimensions			Туре	M3,5
crew tightening torque			Nm	1
Protection degree IEC 529 EN 60529				-
erminals			IP	20
Ambient conditions			ir .	20
			**	25
Derating ambient temperature			°C	-25 ÷ +55
torage ambient temprature			°C	-30 ÷ +70
Vithstand to constant humid according to IEC 60068				2-78
Vithstand to cyclic humid according to IEC 60068				2-30

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