

Via castellazzo 9 - 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

#### Cod. CR0120001RT4



(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



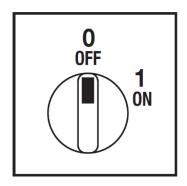
# Technical characteristics: Body

- ON-OFF switch 1 pole
- IP20 Protection degree
- Rated operational current le: 12A
- Rated thermal current Ith: 16A
- 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

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

## **Positions**



# Electrical diagram



#### Electrical function

	0			CR	
	1	X		CA	60°
Contact		1 2	3 4	CQ	
Ele	ment	1		Angle	

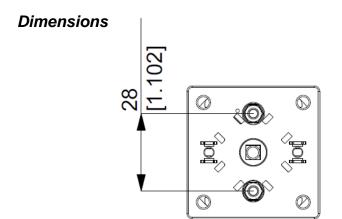


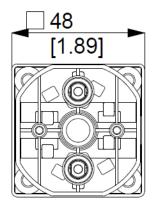
Via castellazzo 9 - 20040 Cambiago (MI) Tel +39 02 95651611 Fax +39 02 95651639 info@bremas.it www.bremas.eu

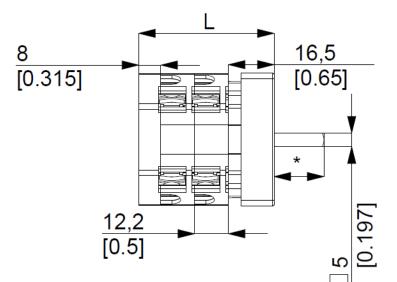
ISO 9001 Certified Quality System

## Cod. CR0120001RT4

measures in mm (in)

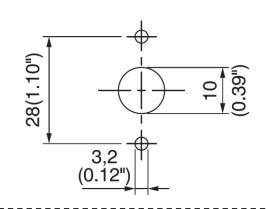


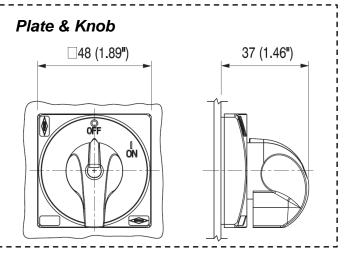




\* Sporgenza / Ledge 18,00mm L Lunghezza / Length 36,60mm

# **Drilling templates**







# Bremas Ersce SpA

Via castellazzo 9 - 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

## Cod. CR0120001RT4

echnical data IEC 947-3 EN 60947-3				
ated insulation voltage		Ui	V	690
ated operating voltage		Ue	V	690
ated impulse withstand voltage		Uimp	kV	6
ated thermal current for open switch		Ith	Α	16
ated thermal current for enclosed switch		Ithe	A	16
ated operation frequency			Hz	50/60
ower dissipation for each pole			W	0,27
			VV	0,27
ated 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				-
ated operating power				
C-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)
2 25A Switching of Motor loads of other righty madeave loads 1 phase 2 pole		230V		
C 2 Constant land and the state of the state			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)	-
C A Squirrol cago motors: starting plugging inching		230V	Kw (A)	
C-4 Squirrel cage motors: starting, pluggign, inching				
		400V	Kw (A)	
C-15 Control of a.c electromagnetic loads		230V	A	4
		400V	A	3
ated breaking capability in AC-23A (cos φ=0,45)		230V	Α	72
		400V	Α	72
hort circuit protection				
ated short time withstand current		Icw	A	150
ated short-circuit make capacity		Icm	A	_
ated conditional short-circuit current		-	kA	4
		500V		
/ith fuses class gG		3007	Α	16
echnical data UL/CSA				
ated operating voltage		Ue	UL/CSA V	600/ -
eneral use current		le	UL/CSA A	12
nort circuit rating @600Vac			Arms	5000
use size (Class RK5, 600Vac, 200kA A.I.C.)			Α	60
ated operating power				
phase - 2 pole		120V	Hp (A)	0,5 (9,8)
Prince 2 porc		240V	Hp (A)	1,5 (10)
nhace - 2 note				
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)
lechanical characteristics				
anel tickness		Max	mm	4
lechanical life			Cycles x 10 <sup>6</sup>	2
			Cycles/hr	120
onnection according to IEC 9471-1 and EN 50947-1				
onnecting capability	With flexible wires	Min-Max	mm²	2x1,5-4
onnecting capability	with nexible wires			
		Min-Max	AWG	16-10
	With solid wires	Min-Max	mm²	2x1,5-6
onnection terminal screw dimensions			Type	M3,5
crew tightening torque			Nm	1
rotection degree IEC 529 EN 60529				
erminals			IP	20
mbient conditions				
			°C	25
perating ambient temperature				-25 ÷ +55
			°C	-30 ÷ +70
orage ambient temprature				
orage ambient temprature ithstand to constant humid according to IEC 60068				2-78 2-30

© 2017 Copyright Bremas Ersce. Subject to change without notice and errors excepted. Data reported in this paper are carefully checked and represent typical values of series production. The descriptions of the device and its applications, contexts of use, details of external controls, information on installation and operation are provided to the best of our knowledge. In any case, this does not mean that the features described may derive legal responsibilities that extend beyond the "Terms and Conditions" of Bremas Ersce. The customer / user is not absolved from the obligation to examine our information and recommendations and the relevant technical regulations before using the products for their own purposes.