

Fremas 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. CR02000G3RK6



(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



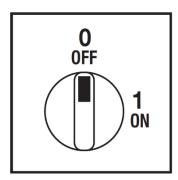
# Technical characteristics: Body

- ON-OFF switch 3 pole with padlockable handle
- IP20 Protection degree
- Rated operational current le: 20A (AC-21A)
- · Rated thermal current Ith: 25A
- · Rated insulation voltage Ui: 690V
- · Base mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 90°
- 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.

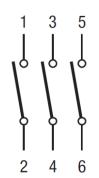
### Technical characteristics: Knob

- Grey plate 67x67mm and black padlockable knob (max. 3 padlocks)
- IP66 Protection degree
- · Fixing with 2 screw at 28mm vertical

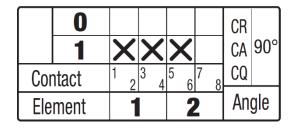
### **Positions**



# Electrical diagram



### Electrical function



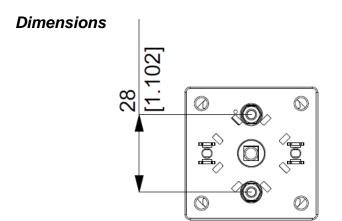


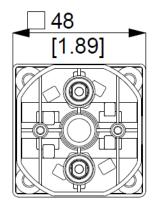
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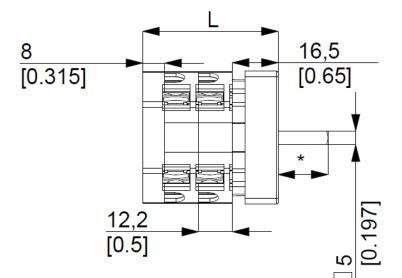
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measures in mm (in)



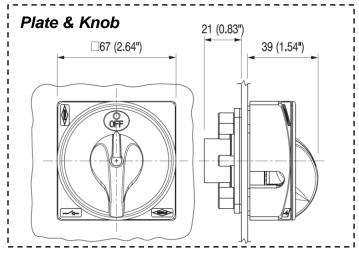




\* Sporgenza / Ledge 18,00mm L Lunghezza / Length 48,90mm

# 3,2

Drilling templates





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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	25
ated thermal current for enclosed switch		Ithe	A	25
ated operation frequency			Hz	50/60
ower dissipation for each pole			W	1
ated operating current				
C-21A Switching resistive loads, including moderate overloads		le	A	20
C-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	16
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)	5,5 (17)
AC 25A SMICHING OF NOTOR BOOK OF CERES INGS IN MODELLE SUBJECT		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)
2 25% Switching of motor loads of other highly modelive loads 1 phase 2 pole		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)
Ac-5 Squirer Cage motors, starting, switching on motors during running 3 phase - 5 pole		400V	Kw (A)	7,5 (14)
		500V	Kw (A)	7,5 (14)
		690V	Kw (A)	7,5 (11)
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)
AC-4 Squirrer cage motors. Starting, piuggign, incrining		400V	Kw (A)	2,2 (2,6)
AC-15 Control of a.c electromagnetic loads		230V	Α	7
2. 15 control of all electromagnetic loads		400V	A	5
ated breaking capability in AC-23A (cos φ=0,45)		230V	A	136
accomplete streaming to public in the 25th (cos q-0,75)		400V	A	128
hort circuit protection		1001		120
ated short time withstand current		Icw	A	240
ated short-circuit make capacity		Icm	A	1500
ated conditional short-circuit current		-	kA	5
Tith fuses class gG		500V	A	20
echnical data UL/CSA		3001		
ated operating voltage		Ue	UL/CSA V	600/300
eneral use current		le	UL/CSA A	20/16
nort circuit rating @600Vac		ic .	Arms	5000
ise size (Class RK5, 600Vac, 200kA A.I.C.)			A	60
ated operating power				
phase - 2 pole		120V	Hp (A)	1,5 (20)
priase - 2 pole		240V	Hp (A)	3 (17)
phase - 3 pole		200V	Hp (A)	5 (16,7)
priose 3 paie		240V	нр (A) Нр (A)	7,5 (22)
		480V	нр (A) Нр (A)	10 (14)
		600V	нр (A) Нр (A)	10 (14)
echanical characteristics		000 V	( IV (A)	10 (11)
nel tickness		Max	mm	4
echanical life		IVIAX	Cycles x 10 <sup>6</sup>	2
echanical inc			Cycles X 10	120
onnection according to IEC 9471-1 and EN 50947-1			Cycles/III	120
	With flexible wires	Min May	mm²	2v1 E 4
onnecting capability	with nexible wires	Min-Max		2x1,5-4
	NAMES - P. L.	Min-Max	AWG	16-10
passion torminal serous dimensions	With solid wires	Min-Max	mm²	2x1,5-6
onnection terminal screw dimensions			Туре	M3,5
rew tightening torque			Nm	1
rotection degree IEC 529 EN 60529			10	
erminals			IP	20
mbient conditions				
perating ambient temperature			°C	
oerating ambient temperature orage ambient temprature			°C	-30 ÷ +70
perating ambient temperature				-25 ÷ +55 -30 ÷ +70 2-78 2-30

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