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

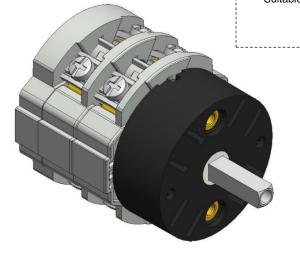
ISO 9001 Certified Quality System

Cod. CA0120005PL1

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





(Image is purely indicative)



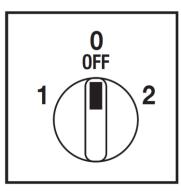
Technical characteristics: Body

- Change-over switch 1 pole
- IP00 Protection degree
- Rated operational current le: 12A (AC-21A)
- Rated thermal current Ith: 16A
- Rated insulation voltage Ui: 690V
- · Panel 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

- Transparent plate 52x52mm and black knob
- · Fixing with 2 screws at 28mm vertical
- IP 40 Protection degree

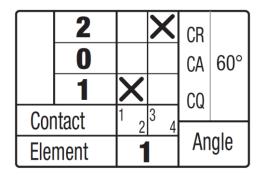
Positions



Electrical diagram



Electrical function

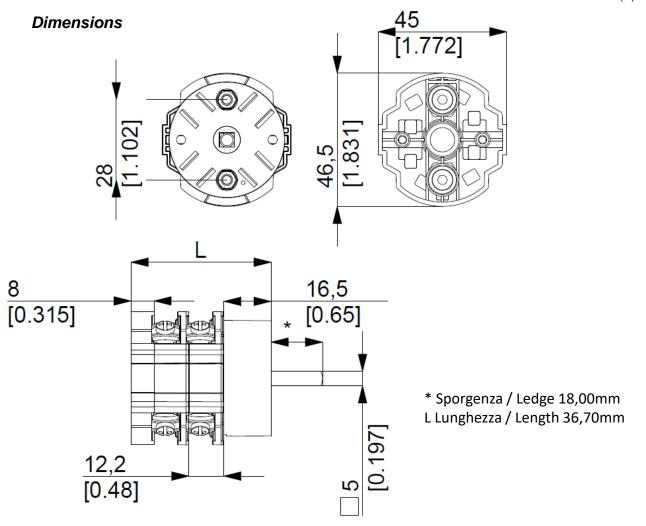


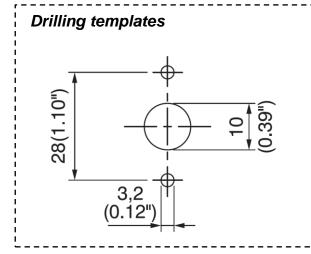
Tel +39 02 95651611 Fax +39 02 95651639 www.bremas.eu info@bremas.it

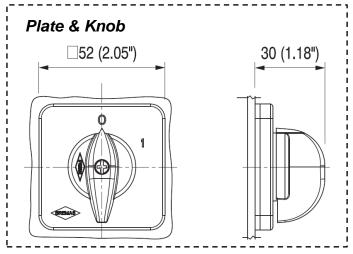
ISO 9001 Certified Quality System

Cod. CA0120005PL1

measures in mm (in)









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. CA0120005PL1

Fechnical 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	Α	16
Rated thermal current for enclosed switch		Ithe	Α	16
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	0.27
Rated operating current				ı
AC-21A Switching resistive loads, including moderate overloads		le	A	12
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	12
C-20A Connecting and disconnecting under no loads conditions				-
lated operating power		2201	14 (4)	2 (0)
C-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole		230V	Kw (A)	3 (9)
AC 22A Switching of mater leads or other highly industive leads 1 phase. 2 pale		400V	Kw (A)	4 (9)
		500V 690V	Kw (A)	-
			Kw (A)	
C-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	0,75 (8,5)
AC 2 Carrieral and a material starting autiching off material during an array and a second starting at second starting and a second starting at second sta		230V	Kw (A)	1,5 (8,5)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V 400V	Kw (A)	2,2 (7)
		500V	Kw (A)	3,5 (7)
		690V	KW (A)	-
C-3 Squirrel cage motors: starting switching off motors during running 1 phase - 2 pole		110V	KW (A)	0,37 (4)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole AC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	1,1 (6)
		400V	Kw (A)	1,1 (0)
		230V	Kw (A)	-
C-4 Squirer cage motors. Starting, proggigm, meming		400V	Kw (A)	-
AC-15 Control of a.c electromagnetic loads		230V	Α Α	4
to 15 control of the electroning field loads		400V	A	3
ated breaking capability in AC-23A (cos φ=0,45)		230V	A	72
tated breaking capability in the 25th (cos q=0,45)		400V	A	72
hort circuit protection			••	
lated short time withstand current		lcw	A	150
lated short-circuit make capacity		lcm	A	-
tated conditional short-circuit current		-	kA	4
Vith fuses class gG		500V	A	16
echnical data UL/CSA				
lated 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.)			Α	60
ated operating power				
phase - 2 pole		120V	Hp (A)	0,5 (9,8)
		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)
Mechanical characteristics				
anel tickness		Max	mm	4
Mechanical life			Cycles x 10 ⁶	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
		Min-Max	AWG	16-10
	With solid wires	Min-Max	mm²	2x1,5-6
onnection terminal screw dimensions			Туре	M3,5
crew tightening torque			Nm	1
rotection degree IEC 529 EN 60529				
erminals			IP	00
mbient conditions				
perating ambient temperature			°C	-25 ÷ +55
torage ambient temprature		·	°C	-30 ÷ +70
Vithstand 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.