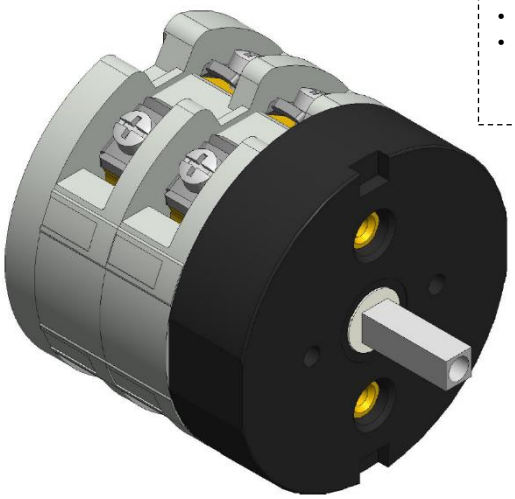
Bremas Ersce SpA
Via castellazzo 9 - 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

Cod. CA0500003PL3

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)

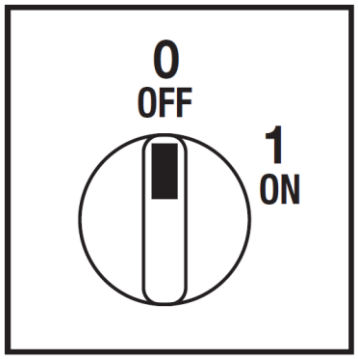
Technical characteristics: Body

- ON-OFF switch 3 pole
- IP00 Protection degree
- Rated operational current Ie: 50A (AC-21A)
- Rated thermal current Ith: 63A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 40mm 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 105x105mm and black knob
- Fixing with 2 screws at 40mm vertical
- IP 40 Protection degree

Positions



Electrical diagram

Electrical function

	0						CR CA CQ	60°
	1	X	X	X				
Contact		1 2		3 4		5 6	7 8	
Element		**1**				**2**		Angle

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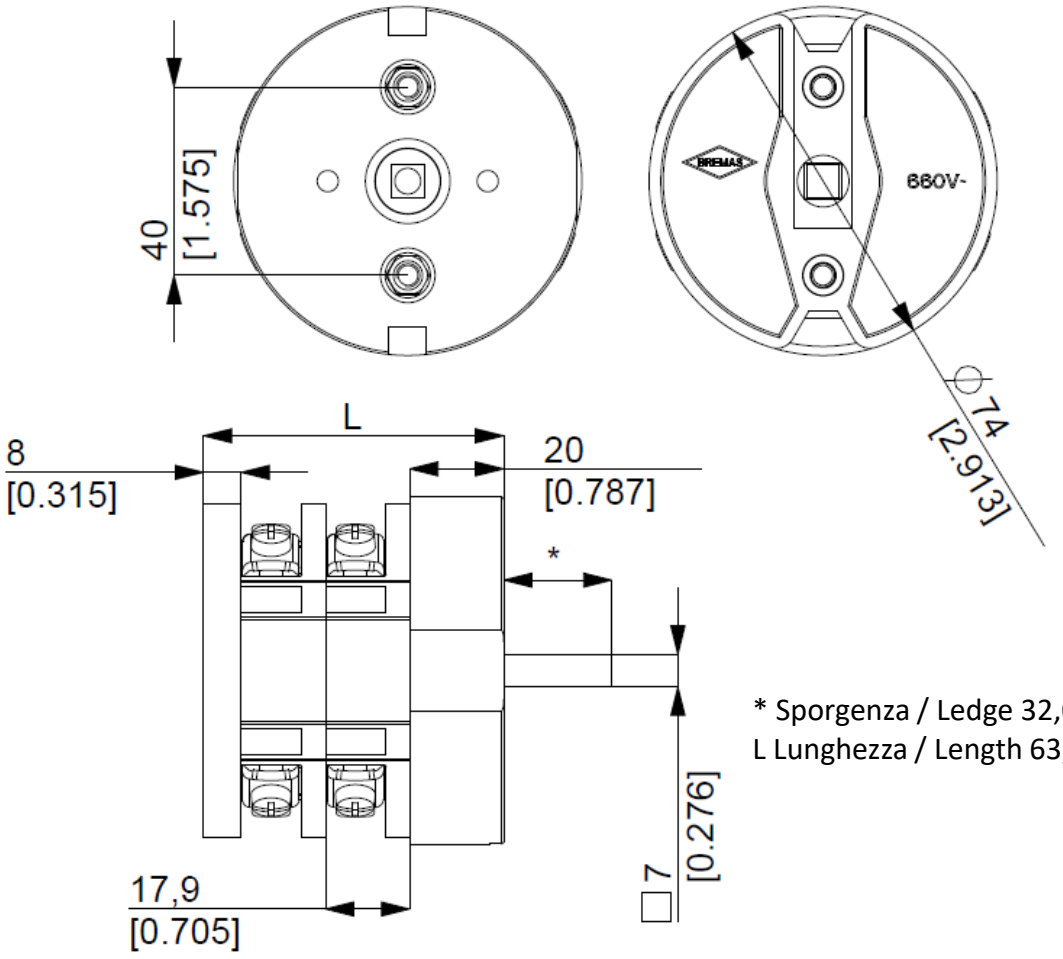
measures in mm (in)

Dimensions



* Sporgenza / Ledge 32,00mm
L Lunghezza / Length 63,80mm

Drilling templates

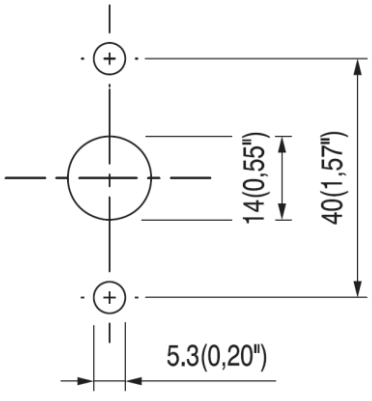
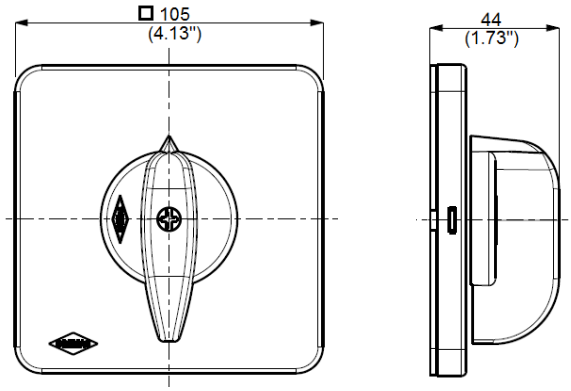


Plate & Knob



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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	63
Rated thermal current for enclosed switch		Ithe	A	63
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	1,5
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		Ie	A	50
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		Ie	A	40
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)	11 (35)
		400V	Kw (A)	22 (40)
		500V	Kw (A)	22 (32)
		690V	Kw (A)	20 (20)
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	3 (36)
		230V	Kw (A)	6,5 (36)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	10 (35)
		400V	Kw (A)	17,5 (32)
		500V	Kw (A)	17,5 (27)
		690V	Kw (A)	18,5 (21)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	2,6 (32)
		230V	Kw (A)	5,5 (30)
		400V	Kw (A)	-
AC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	3,2 (11)
		400V	Kw (A)	6 (11)
AC-15 Control of a.c electromagnetic loads		230V	A	-
		400V	A	-
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	330
		400V	A	330
Short circuit protection				
Rated short time withstand current		Icw	A	500
Rated short-circuit make capacity		Icm	A	2000
Rated conditional short-circuit current		-	kA	10
With fuses class gG		500V	A	50
Thecnical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600/-
General use current		Ie	UL/CSA A	50/-
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)	3 (34)/-
		240V	Hp (A)	7,5 (40)/-
3 phase - 3 pole		200V	Hp (A)	10 (32,2)/-
		240V	Hp (A)	15 (42)/-
		480V	Hp (A)	20 (27)/-
		600V	Hp (A)	25 (27)/-
Mechanical characteristics				
Panel tickness		Max	mm	4
Mechanical life			Cycles x 10^6	1,5
			Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1				
Connecting capability	With flexible wires	Min-Max	mm^2	2x2,5-10
		Min-Max	AWG	14-8
	With solid wires	Min-Max	mm^2	2x2,5-16
Connection terminal screw dimensions			Type	M4
Screw tightening torque			Nm	1,7
Protection degree IEC 529 EN 60529				
Terminals			IP	00
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