

Bremas Ersce SpA
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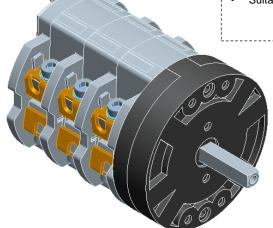
ISO 9001 Certified Quality System

Cod. CA2000039PL4

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





(purely indicative picture)



Technical characteristics

- Change-over switch 4 pole
- IP00 Protection degree
- Rated operational current le: 160A (AC-21A)
- Rated thermal current Ith: 200A
- Rated insulation voltage Ui: 690V
- Panel mounting
- Switching angle: 60°
- Self-extinguishing thermosetting/thermoplastic class V2 housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, made of silver and alloy

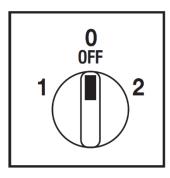
Technical characteristics: Plate and knob

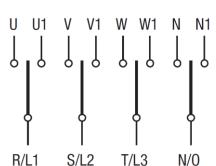
- Transparent plate 130x130mm and black knob
- IP40 Protection degree
- Fixing with 4 screws at 30x90mm

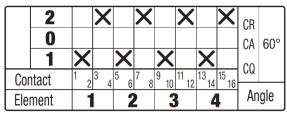
Positions

Electrical diagram

Electrical function









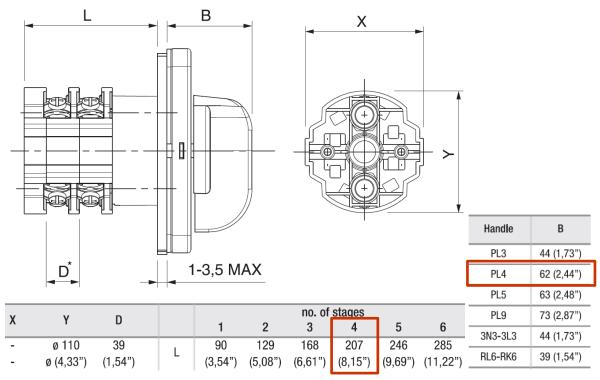
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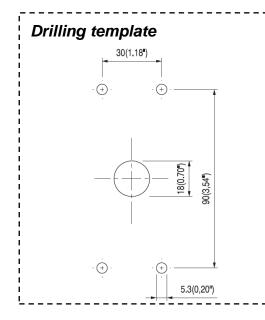
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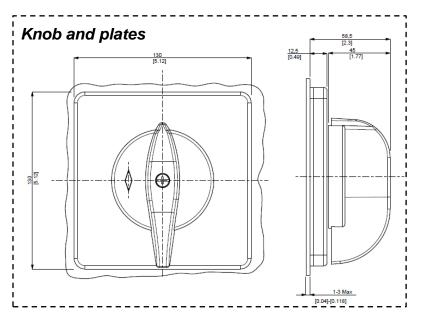
Dimensions

Measures in mm (in)



* D – size of the single element







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E				
Technical data IEC 947-3 EN 60947-3			V	500
Rated insulation voltage		Ui 		690
Rated operating voltage		Ue	V	690
Rated impulse withstand voltage		Uimp	kV	6
Rated thermal current for open switch		Ith	A	115
Rated thermal current for enclosed switch		Ithe	A	100
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	4,7
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		le	Α	115/110 5
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	Α	110
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)	30 (95)
		400V	Kw (A)	45 (85)
		500V	Kw (A)	30 (40)
		690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	9 (102)
		230V	Kw (A)	15 (82)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	22 (70)
		400V	Kw (A)	37 (67)
		500V	Kw (A)	30 (40)
		690V	Kw (A)	-
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	7,5 (85)
		230V	Kw (A)	11 (60)
		400V	Kw (A)	-
AC-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	7,5 (85)
		400V	Kw (A)	11 (20)
AC-15 Control of a.c electromagnetic loads		230V	A	- '
		400V	Α	-
Rated breaking capability in AC-23A (cos φ=0,45)		230V	Α	760
		400V	Α	680
Short circuit protection				
Rated short time withstand current		lcw	Α	1500
Rated short-circuit make capacity		lcm	Α	3000
Rated conditional short-circuit current		-	kA	15
With fuses class gG		500V	Α	125
Technical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600/600
General use current		le	UL/CSA A	125/100
Short circuit rating @600Vac			Arms	-
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)			Α	-
Rated operating power				•
1 phase - 2 pole		120V	Hp (A)	10 (100)/5
		240V	Hp (A)	15 (68)/12
3 phase - 3 pole		200V	Hp (A)	20 (62,1)/-
		240V	Hp (A)	25 (68)/24
		480V	Hp (A)	40(52)/50
		600V	Нр (А)	50(52)/65
Mechanical characteristics			F V 7	
Mechanical life			Cycles x 10 ⁶	0,3
		-	Cycles/hr	120
Connection according to IEC 9471-1 and EN 50947-1 (Power contacts)			-,,-	
Connecting capability	With flexible wires	Min-Max	mm²	10-25
<u>G</u> p	The state of the s	Min-Max	AWG	10-3
	With solid wires	Min-Max	mm²	10-25
Connection terminal screw dimensions	With solid wifes	IVIIII-IVIGA	Туре	M8
Screw tightening torque			Nm	2,8
Protection degree IEC 529 EN 60529			INIII	2,0
Terminals			IP	00
Ambient conditions			10"	1 30
Operating ambient temperature			°C	-25 ÷ +55
Operating ambient temperature Storage ambient temprature			°C	-25 ÷ +55 -30 ÷ +70
Storage ambient temprature Withstand to constant humid according to IEC 60068			· ·	-30 ÷ +70 2-78
Withstand to constant numid according to IEC 60068 Withstand to cyclic humid according to IEC 60068				2-78
				ı 2-3U

Notes:

⁵ = at 500V