

Bremas Ersce SpA
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www.bremas.it info@bremas.it

ISO 9001 Certified Quality System

#### Cod. CA20000G4LE4

### 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)

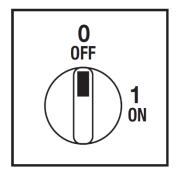
#### Technical characteristics

- · ON-OFF switch 4 pole with padlockable handle
- IP00 Protection degree
- Rated operational current le: 160A (AC-21A)
- Rated thermal current Ith: 200A
- Rated insulation voltage Ui: 690V
- Panel mounting
- Switching angle: 90°
- 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

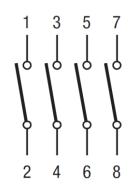
#### Technical characteristics: Plate and knob

 Yellow plate 105x105mm and red padlockable knob (max 3 padlocks)

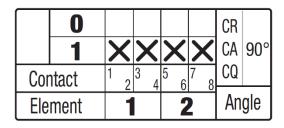
# **Positions**



# Electrical diagram



### Electrical function





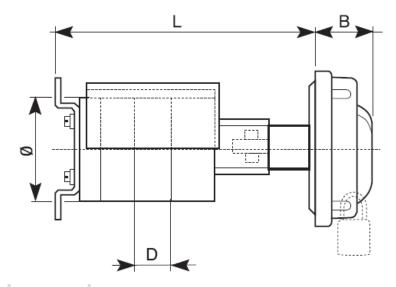
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#### Measures in mm (in)

#### **Dimensions**



CA 200 D = 39 1.54 Ø = 110 4.33

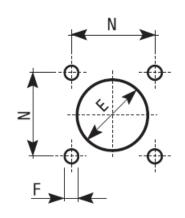
L (mm) L (in)

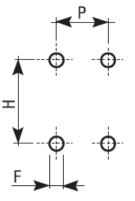
(**mm**) 200 - 204

7.87 - 8.03

	B (mm)
LE3-LN3	44
LE4-LN4	62

# **Drilling templates**





# Misure (mm)

cod.	N	E	F	Н	Р
LE3/LN3	65÷85	40	5,3	84	26
LE4/LN4	94÷110	50	5,3	94÷110	94÷110



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Technical data IEC 947-3 EN 60947-3			
			1
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	200
Rated thermal current for enclosed switch	Ithe	Α	160
Rated operation frequency		Hz	50/60
Power dissipation for each pole		W	7
Rated operating current			
AC-21A Switching resistive loads, including moderate overloads	le	Α	160 <sup>5</sup>
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	le	Α	160
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)	40 (125)
	400V	Kw (A)	59 (106)
	500V	Kw (A)	75 (108)
	690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole	110V	Kw (A)	11 (125)
2 por	230V	Kw (A)	22 (120)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole	230V	Kw (A)	30 (95)
Ac 3 Squirer edge motors, starting, switching of motors during funding 3 priose - 3 pole	400V		45 (82)
	500V	Kw (A)	
		Kw (A)	59 (85)
	690V	Kw (A)	
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole	110V	Kw (A)	9 (102)
	230V	Kw (A)	15 (82)
	400V	Kw (A)	-
AC-4 Squirrel cage motors: starting, pluggign, inching	230V	Kw (A)	-
	400V	Kw (A)	-
AC-15 Control of a.c electromagnetic loads	230V	A	-
	400V	Α	-
Rated breaking capability in AC-23A (cos φ=0,45)	230V	Α	1000
	400V	Α	848
Short circuit protection			
Rated short time withstand current	Icw	Α	2000
Rated short-circuit make capacity	Icm	Α	3000
Rated conditional short-circuit current	-	kA	15
With fuses class gG	500V	Α	200
Technical data UL/CSA			_
Rated operating voltage	Ue	UL/CSA V	600/-
General use current	le	UL/CSA A	240/-
Short circuit rating @600Vac		Arms	-
•		A	_
Fuse size (Class RK5, 600Vac, 200kA A.I.C.)  Rated operating power			
Rated operating power	1201/		
	120V	Нр (А)	-
Rated operating power  1 phase - 2 pole	240V	Hp (A) Hp (A)	-
Rated operating power  1 phase - 2 pole	240V 200V	Нр (A) Нр (A) Нр (A)	-
Rated operating power  1 phase - 2 pole	240V 200V 240V	Нр (A) Нр (A) Нр (A) Нр (A)	-
Rated operating power 1 phase - 2 pole	240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole	240V 200V 240V	Нр (A) Нр (A) Нр (A) Нр (A)	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics	240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	-
Rated operating power  1 phase - 2 pole  3 phase - 3 pole	240V 200V 240V 480V	Hp (A) Cycles x 10 <sup>6</sup>	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life	240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	-
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics	240V 200V 240V 480V	Hp (A) Cycles x 10 <sup>6</sup>	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life	240V 200V 240V 480V	Hp (A) Cycles x 10 <sup>6</sup>	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr	- - - - - - 0,1 120
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm <sup>2</sup> AWG mm <sup>2</sup>	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  With solid wires  Connection terminal screw dimensions	240V 200V 240V 480V 600V	Hp (A) Cycles x 10° Cycles/hr  mm² AWG mm² Type	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  Connection terminal screw dimensions  Screw tightening torque	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm <sup>2</sup> AWG mm <sup>2</sup>	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  With solid wires  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm <sup>2</sup> AWG mm <sup>2</sup> Type Nm	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  With solid wires  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529  Terminals	240V 200V 240V 480V 600V	Hp (A) Cycles x 10° Cycles/hr  mm² AWG mm² Type	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  With solid wires  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529  Terminals  Ambient conditions	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type Nm	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529  Terminals  Ambient conditions  Operating ambient temperature	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type Nm	
Rated operating power  1 phase - 2 pole  3 phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  With solid wires  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529  Terminals  Ambient conditions  Operating ambient temperature	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type Nm	
Rated operating power  I phase - 2 pole  B phase - 3 pole  Mechanical characteristics  Mechanical life  Connection according to IEC 9471-1 and EN 50947-1  Connecting capability  With flexible wires  Connection terminal screw dimensions  Screw tightening torque  Protection degree IEC 529 EN 60529  Terminals  Ambient conditions  Operating ambient temperature	240V 200V 240V 480V 600V	Hp (A) Cycles x 10 <sup>6</sup> Cycles/hr  mm² AWG mm² Type Nm	

#### Notes:

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<sup>&</sup>lt;sup>1</sup> = Terminals for M10 bolts

<sup>&</sup>lt;sup>5</sup> = at 500V