

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

ISO 9001 Certified Quality System

Cod. CA20000G3LE4

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)

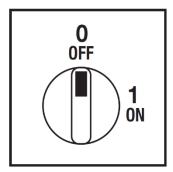
Technical characteristics

- ON-OFF switch 3 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

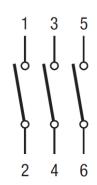
Technical characteristics: Plate and knob

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

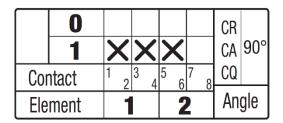
Positions



Electrical diagram



Electrical function





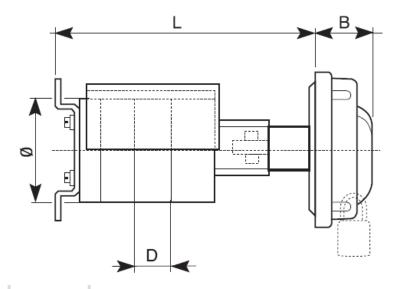
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Measures in mm (in)

Dimensions



CA 200 D = 39 1.54 Ø = 110 4.33

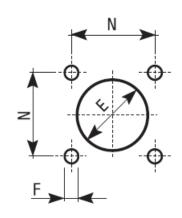
L (mm) L (in)

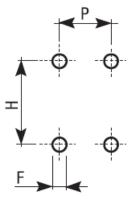
200 - 204

7.87 - 8.03

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

Drilling templates





Misure (mm)

cod.	N	Е	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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F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Technical data IEC 947-3 EN 60947-3		Ui	V	690
Rated insulation voltage Rated operating voltage		Ue	V	690
1 0 0		Uimp	kV	6
Rated impulse withstand voltage Rated thermal current for open switch		Ith	A	200
·		Ithe	A	160
Rated thermal current for enclosed switch		ithe	Hz	50/60
Rated operation frequency Power dissipation for each pole			W	7
			VV	/
Rated operating current		1-	•	4505
AC-21A Switching resistive loads, including moderate overloads		le .	A	160 5
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)
		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)
		400V	Kw (A)	45 (82)
		500V	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	Α	-
		400V	Α	-
Rated breaking capability in AC-23A (cos φ=0,45)		230V	Α	1000
		400V	Α	848
Short circuit protection		400V	A	848
Short circuit protection Rated short time withstand current		400V Icw	A A	2000
Rated short time withstand current		Icw	A	2000
Rated short time withstand current Rated short-circuit make capacity		lcw lcm	A A	2000 3000
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current		Icw Icm	A A kA	2000 3000 15
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG		Icw Icm	A A kA	2000 3000 15
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA		Icw Icm - 500V	A A kA A	2000 3000 15 200
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage		Icw Icm - 500V Ue	A A kA A UL/CSA V	2000 3000 15 200
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current		Icw Icm - 500V Ue	A A kA A UL/CSA V UL/CSA A	2000 3000 15 200 600/- 240/-
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac		Icw Icm - 500V Ue	A A A KA A UL/CSA V UL/CSA A Arms	2000 3000 15 200 600/- 240/-
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200KA A.I.C.)		Icw Icm - 500V Ue	A A A A A A A A A UL/CSA V UL/CSA A Arms	2000 3000 15 200 600/- 240/-
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power		Icw Icm - 500V Ue Ie	A A KA A UL/CSA V UL/CSA A Arms A	2000 3000 15 200 600/- 240/-
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power		lcw lcm - - 500V Ue le	A A KA A UL/CSA V UL/CSA A Arms A Hp (A)	2000 3000 15 200 600/- 240/- -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole		Icw Icm -	A A A A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A)	2000 3000 15 200 600/- 240/- -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole		Icw Icm -	A A A A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A)	2000 3000 15 200 600/- 240/- - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole		Icw Icm -	A A A A A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A)	2000 3000 15 200 600/- 240/- - - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole		Icw Icm 500V Ue Ie 120V 240V 2200V 240V 480V	A A A KA A A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	2000 3000 15 200 600/- 240/- - - - - - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole		Icw Icm 500V Ue Ie 120V 240V 2200V 240V 480V	A A A KA A A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	2000 3000 15 200 600/- 240/- - - - - - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics		Icw Icm 500V Ue Ie 120V 240V 2200V 240V 480V	A A A A A A A A A A A A A A A A A A A	2000 3000 15 200 600/- 240/- - - - - - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics		Icw Icm 500V Ue Ie 120V 240V 2200V 240V 480V	A A A A A A A A A A A A A A A A A A A	2000 3000 15 200 600/- 240/- - - - - - - - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200KA A.I.C.) 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	With flexible wires	1cw 1cm - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A KA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 106 Cycles/hr	2000 3000 15 200 600/- 240/- - - - - - - - - - - - - - - - - - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Mechanical life	With flexible wires	1cw 1cm 500V Ue 1e 120V 240V 240V 240V 240V 480V 600V 600V Min-Max	A A A A A A A A A A A A A A A A A A A	2000 3000 15 200 600/- 240/- - - - - - - - - - - 1 0,1 120
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) 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		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A LUL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr	2000 3000 15 200 600/- 240/ 120 50-70 ¹ 1/0-2/0
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) 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	1cw 1cm 500V Ue 1e 120V 240V 240V 240V 240V 480V 600V 600V Min-Max	A A A A A A A A A A A A A A A A A A A	2000 3000 15 200 600/- 240/ 120 50-70 ¹ 1/0-2/0 16-35
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) 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 Connection terminal screw dimensions		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A A A A A A A A A A A A A A A A	2000 3000 3000 15 200 600/- 240/
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RKS, 600Vac, 200KA A.I.C.) 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 Connection capability Connection terminal screw dimensions Screw tightening torque		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A A A A A A A A A A A A A A A A	2000 3000 15 200 600/- 240/ 120 50-70 ¹ 1/0-2/0 16-35
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RKS, 600Vac, 200kA A.I.C.) 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 Connection capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A LUL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2000 3000 15 200 600/- 240/- - - - - - - - - - - - - -
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) 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 Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A A A A A A A A A A A A A A A A	2000 3000 15 200 600/- 240/
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) 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 Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2000 3000 15 200 600/- 240/ 1/0-2/0 16-35 M10 23
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) 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 Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A KA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2000 3000 15 200 600/- 240/ 1/0-2/0 1/0-2/0 16-35 M10 23
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RKS, 600Vac, 200kA A.I.C.) 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 Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature Storage ambient temperature		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2000 3000 15 200 15 200 600/- 240/
Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) 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 Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature		1cw 1cm - - 500V Ue 1e 120V 240V 220V 240V 480V 600V	A A A A KA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	2000 3000 15 200 15 200 600/- 240/

Notes:

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^{1 =} Terminals for M10 bolts

⁵ = at 500V