

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. CA0160035E3RL6

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 photo)



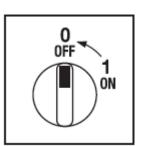
Technical characteristics: Body

- Device with safety electromagnet
- IP00 Protection degree
- Rated operational current le: 16A
- Rated thermal current Ith: 20A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 45°
- 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
- 110V A.C. Coil feeding
- Allows automatic return to the '0' position in the event of a power failure by cutting off the power supply to the circuit

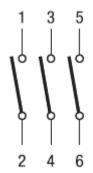
Technical characteristics: Plate and knob

- Mostrina gialla 67x67mm e manopola rossa
- IP66 Protection degree
- Fissaggio: 2 viti a interasse 28mm verticale

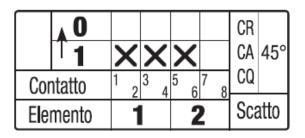
Positions



Electrical diagram



Electrical function





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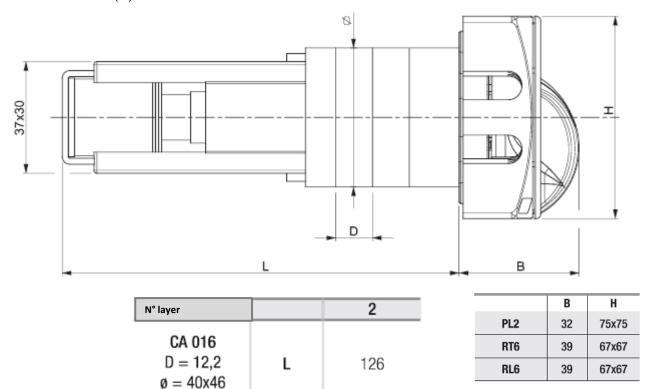
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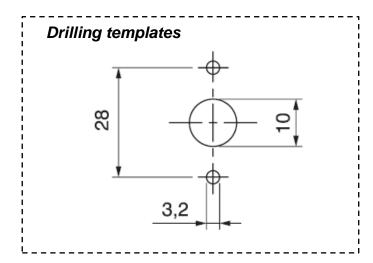
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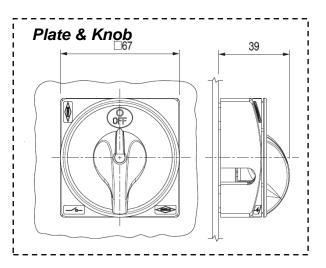
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Dimensions

measures in mm (in)









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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	20
Rated thermal current for enclosed switch	Ithe	A	20
Rated operation frequency	Tale	Hz	50/60
Power dissipation for each pole		W	0,5
Rated operating current		**	0,5
	le .	A	16
AC-21A Switching resistive loads, including moderate overloads	le		
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	le	A	16
AC-20A Connecting and disconnecting under no loads conditions			-
Rated operating power	2221		
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole	230V	Kw (A)	4 (14)
	400V	Kw (A)	7,5 (14)
	500V	Kw (A)	-
	690V	Kw (A)	
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole	110V	Kw (A)	1,1 (12)
	230V	Kw (A)	2,2 (14)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole	230V	Kw (A)	3,7 (12)
	400V	Kw (A)	5,5 (10)
	500V	Kw (A)	-
	690V	Kw (A)	
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole	230V	Kw (A)	0,75 (9)
		Kw (A)	1,5 (8)
	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 .	6
	400V	Α	4
Rated breaking capability in AC-23A (cos φ =0,45)	230V	Α .	112
	400V	A	112
Short circuit protection	la		240
Rated short time withstand current Pated short time withstand current	Icw	A A	240
Rated short-circuit make capacity Rated conditional short-circuit current	Icm -	kA	4
With fuses class gG	500V	A	20
Technical data UL/CSA	3007	A	20
	He	LIL /CCA V	600/
Rated operating voltage	Ue	UL/CSA V	600/-
General use current	le	UL/CSA A	16
Short circuit rating @600Vac			
		Arms	5000
Fuse size (Class RKS, 600Vac, 200kA A.I.C.)		Arms A	5000 25 (30)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power		A	25 (30)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.)	120V	A Hp (A)	25 (30) 1 (16)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole	240V	A Hp (A) Hp (A)	25 (30) 1 (16) 2 (12)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power	240V 200V	A Hp (A) Hp (A) Hp (A)	25 (30) 1 (16) 2 (12) 2 (7,8)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole	240V 200V 240V	A Hp (A) Hp (A) Hp (A) Hp (A)	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole	240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole	240V 200V 240V	A Hp (A) Hp (A) Hp (A) Hp (A)	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6)
Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics	240V 200V 240V 480V 600V	A Hp (A)	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness	240V 200V 240V 480V	A Hp (A)	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness	240V 200V 240V 480V 600V	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10°	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life	240V 200V 240V 480V 600V	A Hp (A)	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9)
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1	240V 200V 240V 480V 600V	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles/hr	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7,5 (11) 7,5 (9) 4 2 120
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1	240V 200V 240V 480V 600V Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles/hr	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120
Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connecting capability With flexible wires	240V 200V 240V 480V 600V Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles/hr Mm² AWG	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10
Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connecting capability With flexible wires With solid wires	240V 200V 240V 480V 600V Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles/hr Mm² AWG mm²	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6
Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness 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 Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr AWG mm² Type	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7.5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness 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	240V 200V 240V 480V 600V Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles/hr Mm² AWG mm²	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6
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 With flexible wires Connection terminal screw dimensions Connection terminal screw dimensions Connection degree IEC 529 EN 60529	240V 200V 240V 480V 600V Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm² AWG mm² Type Nm	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panell thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Mith flexible wires With solid wires Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals	240V 200V 240V 480V 600V Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr AWG mm² Type	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7.5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With solid wires Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions	240V 200V 240V 480V 600V Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles/hr mm² AWG mm² Type Nm	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability 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 Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles x 10° Cycles/hr Type Nm IP	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7.5 (11) 7.5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 00
Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With flexible wires With solid wires Connection terminal screw dimensions Corew tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature Storage ambient temperature	240V 200V 240V 480V 600V Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles/hr mm² AWG mm² Type Nm	25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 00 -25 ÷ +55 -30 ÷ +70
Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability 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 Max Min-Max	A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10° Cycles x 10° Cycles/hr Type Nm IP	25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 00

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