BREMAS

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ISO 9001 Certified Quality System

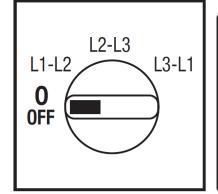
Cod. CQ0120016RV4

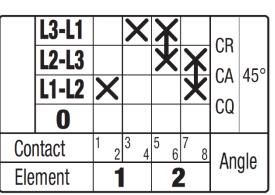


(Image is purely indicative)



Positions





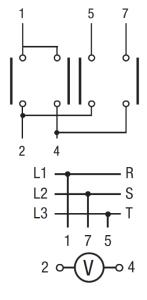
Technical characteristics: Body

- · Voltmeter switch 3 concatenated voltages
- IP20 Protection degree
- Rated operational current le: 16A (AC-21A)
- Rated thermal current Ith: 16A
- Rated insulation voltage Ui: 690V
- Panel Mounting
- Fixing with 4 screw at 36x36mm
- Switching angle: 45°
- Class V2 self-extinguishing thermoplastic housing
- Positive opening double break contacts, silver alloy made.

Technical characteristics: Knob

- Grey plate 48x48mm and black knob
- IP66 Protection degree
- Fixing with 4 screw at 36x36mm

Electrical diagram and function



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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

Cod. CQ0120016RV4

Dimensions

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B

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В

mm

in

Handle

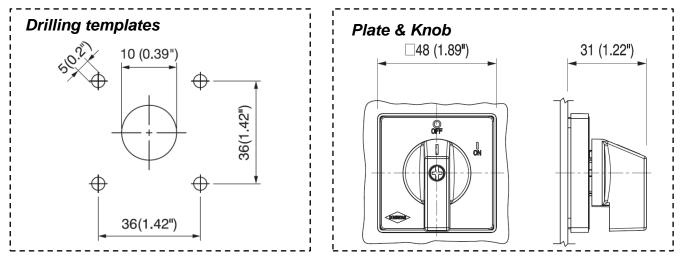
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measures in mm (in)

	م	
× _		
1-4	MAX (0,040"-0,15")	

Switch dimensions

1510115												
Series X	٨	D	D 1	N° Stages				RT4-RY4	37	1,45		
^	A	D		2	3	4	5	6		20	1 5 2	
CQ 012-016 40x40 1,57"x1,57"		12,5 L 0,49" —	I (mm)	48	60.5	73	85.5	98	110.5	RL6-RK6	39	1,53
				10	,	10	,		110,0		39	1,53
			L(in)	1,89	2,38	2,87	3,36	3,85	4,35	RV4-RW4	31	1,22
CQ 025-032 63x62 2,48"x 2,44"		12,5	L (mm)	49,5	62	74,5	87	99,5	112	RV6-RW6	36	1,42
		0,49"	L(in)	1,94	2,44	2,93	3,42	3,92	4,40	RRO	34	1,34
	X 40x40 1,57"x1,57" 63x62	X A 40x40 □ 48 1,57"x1,57" □ 1,89" 63x62 □ 60	X A D 40x40 □ 48 12,5 1,57"x1,57" □ 1,89" 0,49" 63x62 □ 60 12,5	XAD $40x40$ $1,57"x1,57"$ $\Box 48$ $\Box 1,89"$ $12,5$ $0,49"$ L (mm) $63x62$ $\Box 60$ $\Box 2000$ $12,5$ $\Box 2000$ L (mm)	X A D 1 $40x40$ $\Box 48$ $12,5$ L (mm) 48 $1,57$ "x1,57" $\Box 1,89$ " $0,49$ " L (in) 1,89 $63x62$ $\Box 60$ $12,5$ L (mm) 49,5	X A D 1 2 40x40 -148 12,5 L (mm) 48 60,5 1,57"x1,57" -1,89" 0,49" L (m) 1,89 2,38 63x62	X A D 1 2 3 40x40 \Box 48 $12,5$ L (mm) 48 60,5 73 $1,57$ "x1,57" \Box 1,89" $0,49$ " L (mm) 1,89 2,38 2,87 $63x62$ \Box 60 $12,5$ L (mm) 49,5 62 74,5	X A D I 2 3 4 40x40 \Box 48 12,5 L (mm) 48 60,5 73 85,5 1,57"x1,57" \Box 189" 0,49" L (in) 1,89 2,38 2,87 3,36 63x62 \Box 60 12,5 L (mm) 49,5 62 74,5 87	X A D I 2 3 4 5 40x40 \Box 48 12,5 L (mm) 48 60,5 73 85,5 98 1,57"x1,57" \Box 189" 0,49" L (in) 1,89 2,38 2,87 3,36 3,85 63x62 \Box 60 12,5 L (mm) 49,5 62 74,5 87 99,5	X A D 1 2 3 4 5 6 40x40 \Box 48 $12,5$ L (mm) 48 $60,5$ 73 $85,5$ 98 $110,5$ $1,57"x1,57"$ \Box 1,89" $0,49"$ L (m) $1,89$ $2,38$ $2,87$ $3,36$ $3,85$ $4,35$ $63x62$ \Box 60 $12,5$ L (mm) $49,5$ 62 $74,5$ 87 $99,5$ 112	X A D I 2 3 4 5 6 $40x40$ 48 $12,5$ L (mm) 48 $60,5$ 73 $85,5$ 98 110,5 RL6-RK6 $1,57"x1,57"$ $1,89"$ $0,49"$ L (m) $48,$ $2,38$ $2,87$ $3,36$ $3,85$ $4,35$ RV4-RW4 $63x62$ 60 $12,5$ L (mm) $49,5$ 62 $74,5$ 87 $99,5$ 112 RV6-RW6 $2.48"x 2.44"$ $2.36"$ $0.49"$ 1.04 0.44 0.05 0.46 0.40	X A D I 2 3 4 5 6 RT4-RY4 37 $40x40$ 48 $12,5$ L (mm) 48 $60,5$ 73 $85,5$ 98 $110,5$ RT6-RY6 39 $40x40$ -48 $12,5$ L (mm) 48 $60,5$ 73 $85,5$ 98 $110,5$ RL6-RK6 39 $1,57"x1,57"$ $-1,89"$ $0,49"$ 1.89 $2,38$ $2,87$ $3,36$ $3,85$ $4,35$ RV4-RW4 31 $63x62$ -60 $12,5$ L (mm) $49,5$ 62 $74,5$ 87 $99,5$ 112 RV6-RW6 36 $2.48"x 2.44"$ $-2.36"$ $0.49"$ 4.94 0.94 0.90 0.40 0.90 4.40



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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	lth	А	16
Rated thermal current for enclosed switch	Ithe	A	16
Rated operation frequency		Hz	50/60
Power dissipation for each pole		W	0,4
Rated operating current			-,.
AC-21A Switching resistive loads, including moderate overloads	le	А	16
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	le	A	10
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)	4 (13)
	400V	Kw (A)	7,5 (14)
	500V	Kw (A)	7,5 (11)
	690V	Kw (A)	7,5 (8)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole	230V	Kw (A)	2,8 (9)
	400V	Kw (A)	5,5 (10)
	500V	Kw (A)	5,5 (10)
	690V	Kw (A)	5,5 (6)
AC-4 Squirrel cage motors: starting, pluggign, inching	230V	Kw (A)	1,1 (3)
re + squinci cuge indicis, starting, puggigi, incling	400V	Kw (A)	1,75 (3)
AC-15 Control of a.c electromagnetic loads	230V	A A	5
	400V	A	3
Rated breaking capability in AC-23A (cos φ=0,45)	230V	A	112
nateu breaking tapability in AC-25A (US ψ=0,45)	400V	A	112
	4001	~	112
Short circuit protection Rated short time withstand current	lcw	A	200
Rated short-circuit make capacity	Icm	A	1000
Rated short-circuit nake capacity Rated conditional short-circuit current	-	kA	5
With fuses class gG	500V	A	20
Technical data UL/CSA	5007	~	20
Rated operating voltage	Ue	UL/CSA V	600/ -
General use current	le	UL/CSA V	16
	ie	OL/CJA A	10
Rated operating power	1201/	Hp (A)	05 (05)
Rated operating power 1 phase - 2 pole	120V	Hp (A)	0,5 (0,5)
1 phase - 2 pole	240V	Hp (A)	1,5 (1,5)
	240V 200V	Hp (A) Hp (A)	1,5 (1,5) 2/2
1 phase - 2 pole	240V 200V 240V	Hp (A) Hp (A) Hp (A)	1,5 (1,5) 2/2 3/3
1 phase - 2 pole	240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A)	1,5 (1,5) 2/2 3/3 5/5
1 phase - 2 pole 3 phase - 3 pole	240V 200V 240V	Hp (A) Hp (A) Hp (A)	1,5 (1,5) 2/2 3/3
1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics	240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A)	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5
1 phase - 2 pole 3 phase - 3 pole	240V 200V 240V 480V	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cicli x 10 ⁶	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2
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)	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5
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) Hp (A) Hp (A) Hp (A) Hp (A) Cicli x 10 ⁶ Cicli/ora	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120
1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Mechanical life	240V 200V 240V 480V 600V	Нр (A) Нр (A) Нр (A) Нр (A) Нр (A) Сісіі х 10 ⁶ Сісіі/ога mm2	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5
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 Min-Max Min-Max	Нр (A) Нр (A) Нр (A) Нр (A) Нр (A) Сісіі х 10 ⁶ Сісіі/ога mm2 AWG	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12
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	240V 200V 240V 480V 600V	Нр (A) Нр (A) Нр (A) Нр (A) Нр (A) Сісіі х 10 ⁶ Сісіі/ога тт2 АWG mm2	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4
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	240V 200V 240V 480V 600V Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cicli x 10 ⁶ Cicli/ora mm2 AWG mm2 Tipo	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4 M3,5
1 phase - 2 pole 3 phase - 3 pole Wechanical 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 Min-Max Min-Max	Нр (A) Нр (A) Нр (A) Нр (A) Нр (A) Сісіі х 10 ⁶ Сісіі/ога тт2 АWG mm2	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4
1 phase - 2 pole 3 phase - 3 pole Wechanical 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	240V 200V 240V 480V 600V Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cicli x 10 ⁶ Cicli/ora mm2 AWG mm2 Tipo Nm	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4 M3,5 1
1 phase - 2 pole 3 phase - 3 pole Wechanical 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 Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cicli x 10 ⁶ Cicli/ora mm2 AWG mm2 Tipo	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4 M3,5
1 phase - 2 pole 3 phase - 3 pole Wechanical 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	240V 200V 240V 480V 600V Min-Max Min-Max	Нр (A) Нр (A) Нр (A) Нр (A) Ир (A) Сісіі х 10 ⁶ Сісіі/ога mm2 AWG mm2 Tipo Nm	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4 M3,5 1 1 20
1 phase - 2 pole 3 phase - 3 pole Wechanical 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 Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Cicli x 10 ⁶ Cicli/ora Mm2 AWG mm2 Tipo Nm IP C	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4 M3,5 1
1 phase - 2 pole 3 phase - 3 pole Wechanical characteristics Mechanical life Connection according to IEC 9471-1 and EN 50947-1 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 Storage ambient temperature	240V 200V 240V 480V 600V Min-Max Min-Max	Нр (A) Нр (A) Нр (A) Нр (A) Ир (A) Сісіі х 10 ⁶ Сісіі/ога mm2 AWG mm2 Tipo Nm	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-4 M3,5 1 1 20
1 phase - 2 pole 3 phase - 3 pole Wechanical 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 Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Hp (A) Cicli x 10 ⁶ Cicli/ora Mm2 AWG mm2 Tipo Nm IP C	1,5 (1,5) 2/2 3/3 5/5 7,5/7,5 2 120 2x1,5-2,5 16-12 2x1,5-2,5 16-12 2x1,5-4 M3,5 1 1 20 -25 ÷ +55

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