Bremas Ersce SpA
Via castellazzo 9 - 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.eu info@bremas.it
ISO 9001 Certified Quality System

Cod. CQ0160007RV4

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

(Image is purely indicative)

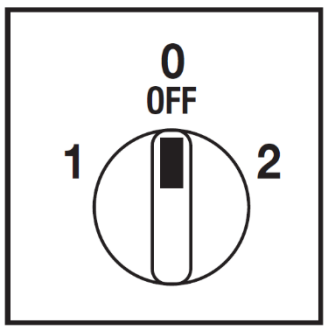
Technical characteristics: Body

- Change-over switch 3 pole
- IP20 Protection degree
- Rated operational current Ie: 20A (AC-21A)
- Rated thermal current Ith: 20A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 4 screw at 36x36mm
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Positive opening double break contacts, silver alloy made.

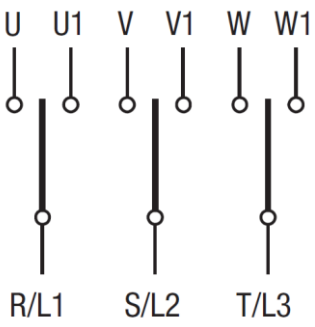
Technical characteristics: Knob

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

Positions



Electrical diagram



Electrical function

	2		X		X		X				CR		
	0										CA	60°	
	1	X		X		X					CQ		
Contact		1	2	3	4	5	6	7	8	9	10	11	12
Element		1		2		3						Angle	

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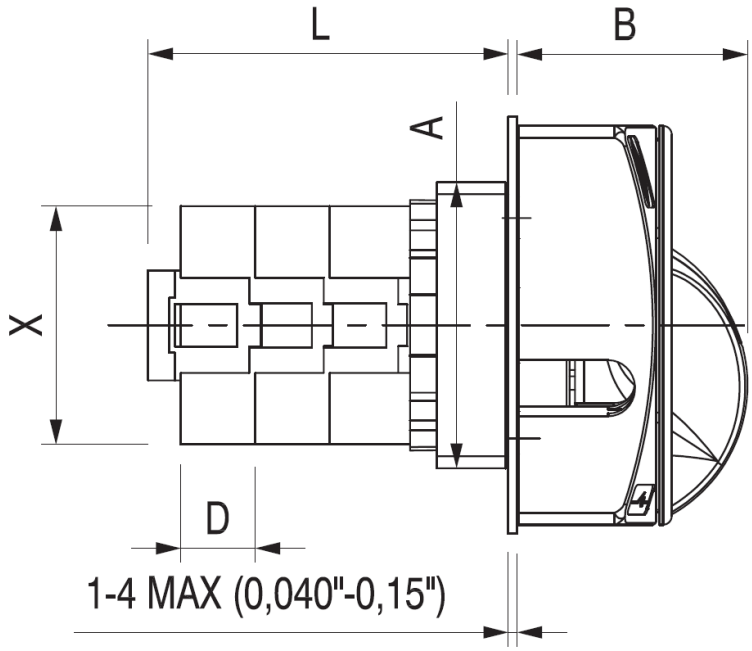
measures in mm (in)

Dimensions



Switch dimensions

Series	X	A	D		N° Stages 1	2	3	4	5	6
CQ 012-016	40x40 1,57"x1,57"	□ 48 □ 1,89"	12,5 0,49"	L (mm)	48	60,5	73	85,5	98	110,5
				L(in)	1,89	2,38	2,87	3,36	3,85	4,35
CQ 025-032	63x62 2,48"x 2,44"	□ 60 □ 2,36"	12,5 0,49"	L (mm)	49,5	62	74,5	87	99,5	112
				L(in)	1,94	2,44	2,93	3,42	3,92	4,40

Handle	B mm	B in
RT4-RY4	37	1,45
RT6-RY6	39	1,53
RL6-RK6	39	1,53
RV4-RW4	31	1,22
RV6-RW6	36	1,42
RR0	34	1,34

Drilling templates

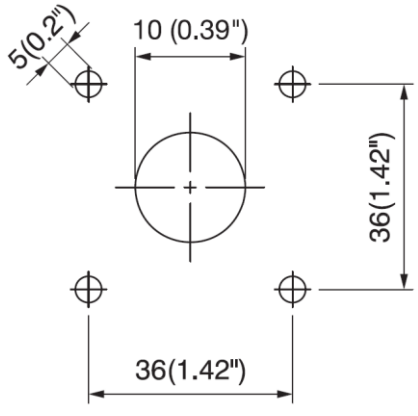
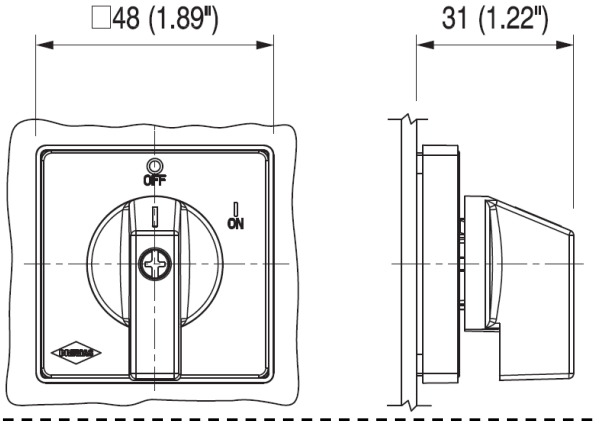


Plate & Knob



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				CQ016
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			Hz	50/60
Power dissipation for each pole			W	0,6
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		Ie	A	20
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		Ie	A	16
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)	5,5 (17)
		400V	Kw (A)	9 (16)
		500V	Kw (A)	9 (13)
		690V	Kw (A)	9 (9)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 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-4 Squirrel cage motors: starting, pluggign, inching		230V	Kw (A)	1,5 (4)
		400V	Kw (A)	2,2 (4)
AC-15 Control of a.c electromagnetic loads		230V	A	6
		400V	A	4
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	128
		400V	A	128
Short circuit protection				
Rated short time withstand current		Icw	A	240
Rated short-circuit make capacity		Icm	A	1000
Rated conditional short-circuit current		-	kA	5
With fuses class gG		500V	A	20
Thecnical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600
General use current		Ie	UL/CSA A	20
Short circuit rating @600Vac			Arms	5000
Rated operating power				
1 phase - 2 pole		120V	UL/CSA Hp	1,5/0,5
		240V	UL/CSA Hp	3/1,5
3 phase - 3 pole		200V	UL/CSA Hp	5/3
		240V	UL/CSA Hp	7,5/5
		480V	UL/CSA Hp	7,5/7,5
		600V	UL/CSA Hp	10/10
Mechanical characteristics				
Mechanical life			Cycles x 10^6	2
			Cycles/hour	120
Connection according to IEC 9471-1 and EN 50947-1				
Connecting capability	With flexible wires	Min-Max	mm2	2x1,5-2,5
		Min-Max	AWG	16-12
	With solid wires	Min-Max	mm2	2x1,5-4
Connection terminal screw dimensions			Type	M3,5
Screw tightening torque			Nm	1
Protection degree IEC 529 EN 60529				
Terminals			IP	20
Ambient conditions				
Operating ambient temperature			°C	-25 ÷ +55
Storage ambient temprature			°C	-30 ÷ +70
Withstand to constant humid according to IEC 60068				2-78
Withstand to cyclic humid according to IEC 60068				2-30