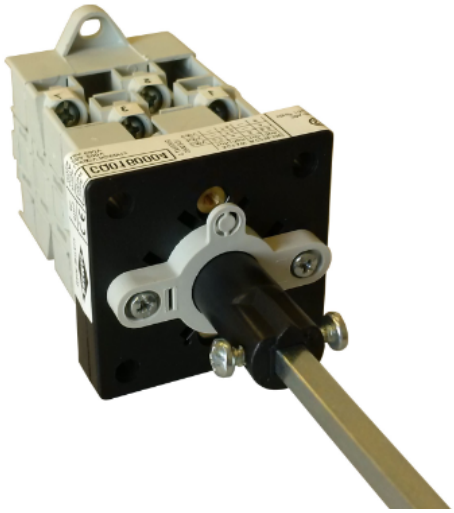
Cam Switches
CQ Series – Datasheet

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. CQ01600G3BL6S



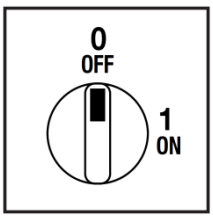
Technical characteristics: Body

- ON-OFF switch 3 pole
- IP20 Protection degree
- Rated operational current In: 20A
- Rated thermal current Ith: 20A
- Rated insulation voltage Ui: 690V
- Base Mounting
- Fixing: - 2 screws
  - DIN rail
- Switching angle: 90°
- Class V2 self-extinguishing thermoplastic housing
- Positive opening double break contacts, silver alloy made.

Technical characteristics: Plate and knob

- Yellow plate 67x67mm and red padlockable knob (max. 3 padlocks)
- IP66 Protection degree
- Fixing with 4 screw at 36x36mm / 48x48mm (with adapter)

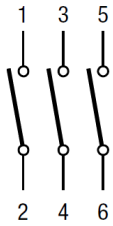
Plate and positions



Electrical function

	0				
	1	X	X	X	
Contact	1 2	3 4		5 6	7 8
Element		1		2	

Electrical scheme



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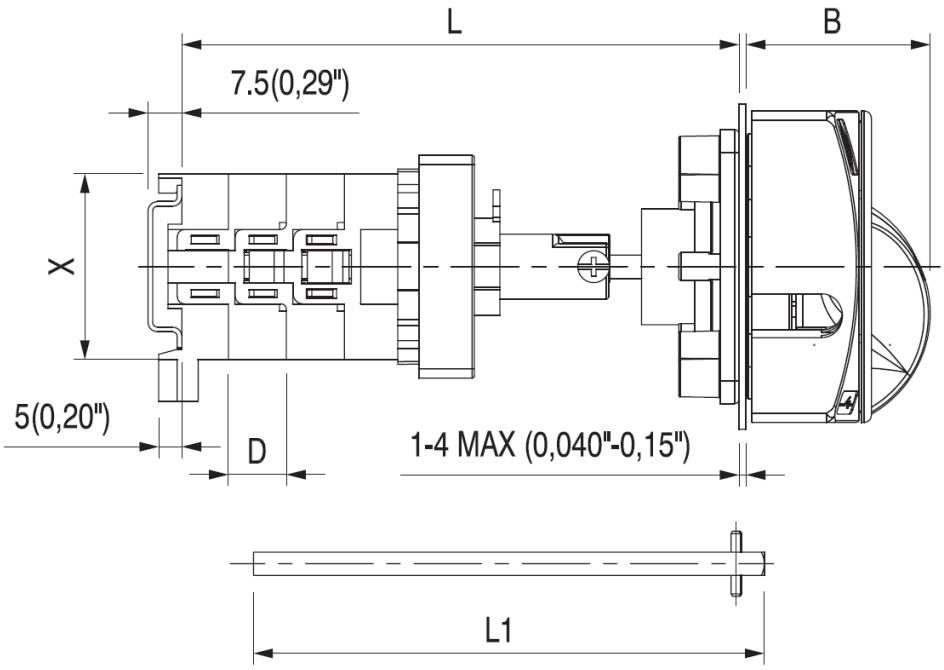
Dimensions

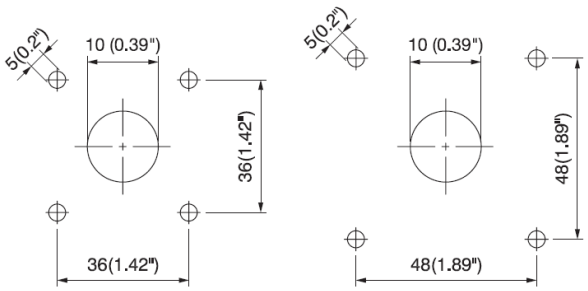
measures in mm (in)



X	D	B	N° of stages
			2
40x40 (1,57")	12,5 (0,49")	39 (1,53")	115 (4,52")

Drilling templates

measures in mm (in)



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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

Standard IEC/EN 60947-3; UL508

Approvals