

Cam switches

CQ series

Technical data IEC 947-3 EN 60947-3

Rated insulation voltage
Rated operating voltage
Rated impulse withstand voltage
Rated thermal current for open switch
Rated thermal current for enclosed switch
Rated operation frequency
Power dissipation for each pole
Rated operating current Ie
AC-21A Switching resistive loads, including moderate overloads
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads
AC-20A Connecting and disconnecting under no load conditions
Rated operating power
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole
AC-3 Squirrel cage motors: starting, switching off motors during running 3 phase - 3 pole
AC-4 Squirrel cage motors: starting, plugging, inching
AC-15 Control of a.c. electromagnetic loads ≥ 72 VA
Rated breaking capability in category in AC-23A ($\cos \varphi = 0,45$)
Short circuit protection
Rated short time withstand current (1s)
Rated short-circuit make capacity
Rated conditional short-circuit current
With fuses class gG

Technical data UL/CSA

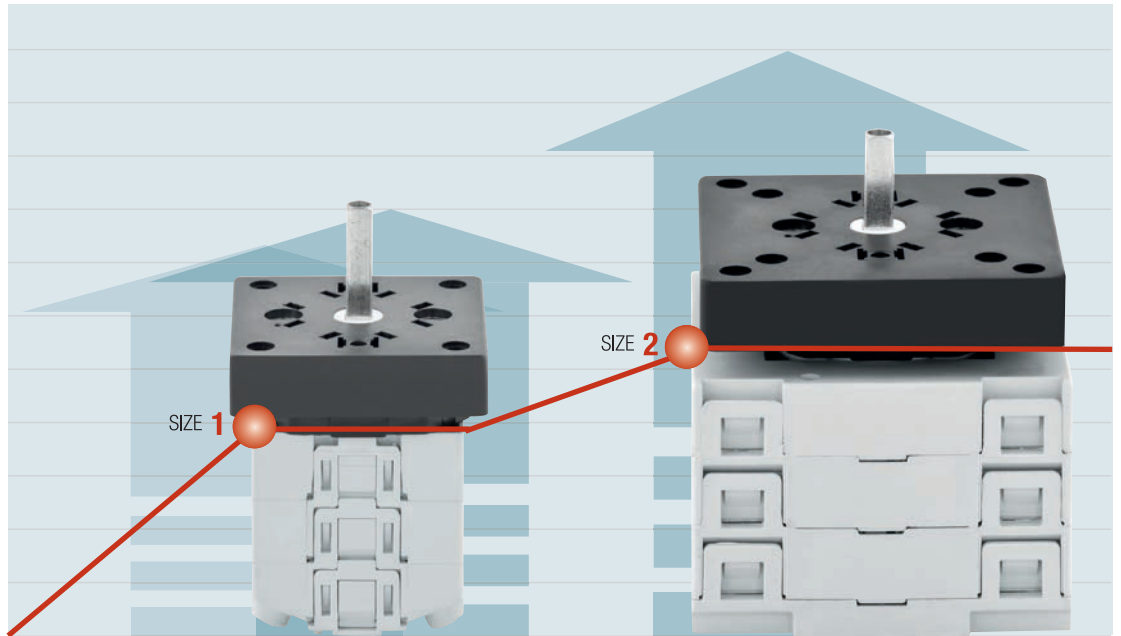
Rated insulation voltage
Rated operating voltage
General Use Current
Rated operating power
1 phase - 2 pole
3 phase - 3 pole

Mechanical characteristics

Mechanical life
Connections according to IEC 9471-1 and EN 60947-1
Connecting capability
Connecting capability with flexible wires
Connecting capability with solid wires
Connection terminal screw dimensions
Screw tightening torque
Protection degree IEC 529 EN 60529
Terminals
Ambient conditions
Operating ambient temperature
Storage ambient temperature
Withstand to constant humid according to IEC 60068
Withstand to cyclic humid according to IEC 60068

		CQ012	CQ016	CQ025	CQ032
Ui	V	690	690	690	690
Ue	V	690	690	690	690
Uimp	kV	6	6	4	4
Ith	A	16	20	32	40
Ithe	A	16	20	25	32
	Hz	50	50	50	50
	W	0,4	0,6	0,85	1,3
<hr/>					
le	A	16	20	32	40
le	A	12	16	25	32
-	-	-	-	-	-
<hr/>					
230V	Kw (A)	4 (13)	5,5 (17)	9 (28)	11 (35)
400V	Kw (A)	7,5 (14)	9 (16)	15 (27)	18,5 (33)
500V	Kw (A)	7,5 (11)	9 (13)	15 (22)	18 (27)
690V	Kw (A)	7,5 (8)	9 (9)	15 (16)	18,5 (19)
230V	Kw (A)	2,8 (9)	4 (13)	6,5 (20)	8,5 (26)
400V	Kw (A)	5,5 (10)	7,5 (14)	11 (21)	15 (27)
500V	Kw (A)	5,5 (8)	7,5 (11)	11 (16)	14 (20)
690V	Kw (A)	5,5 (6)	7,5 (8)	11(12)	14 (15)
230V	Kw (A)	1,1 (3)	1,5 (4)	3,7 (12)	4 (12)
400V	Kw (A)	1,75 (3)	2,2 (4)	4 (7)	5,5 (10)
230V	A	5	6	8	10
400V	A	3	4	6	8
230V	A	112	128	240	280
400V	A	112	128	216	264
<hr/>					
Icw	A	200	240	500	640
Icm	A	1000	1000	2000	2000
-	kA	5	5	10	10
500V	A	20	20	50	50
<hr/>					
Ui	UL/CSA V	600	600	-	-
Ue	UL/CSA V	600	600	-	-
le	UL/CSA A	16	20	-	-
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120V	UL/CSA Hp	0,5/0,5	1,5 /0,5	-	-
240V	UL/CSA Hp	1,5/1,5	3/1,5	-	-
200V	UL/CSA Hp	2/2	5/3	-	-
240V	UL/CSA Hp	3/3	7,5/5	-	-
480V	UL/CSA Hp	5/5	7,5/7,5	-	-
600V	UL/CSA Hp	7,5/7,5	10/10	-	-
<hr/>					
-	cycles x 10 ⁶	2	2	2	1,5
-	cycles/hour	120	120	120	120
<hr/>					
Min-Max	mm ²	2x1,5-2,5	2x1,5-2,5	2x2,5-6	2x2,5-6
Min-Max	AWG	16-12	16-12	14-10	14-10
Min-Max	mm ²	2x1,5-4	2x1,5-4	2x2,5-10	2x2,5-10
-	Type	M3,5	M3,5	M5	M5
-	Nm	1,0	1,0	2,8	2,8
<hr/>					
	IP	20			
<hr/>					
	°C	-25 ÷ +55			
	°C	-30 ÷ +70			
sec. IEC60068 2-78 part					
sec. IEC60068 2-30 part					

■ CQ 012...032

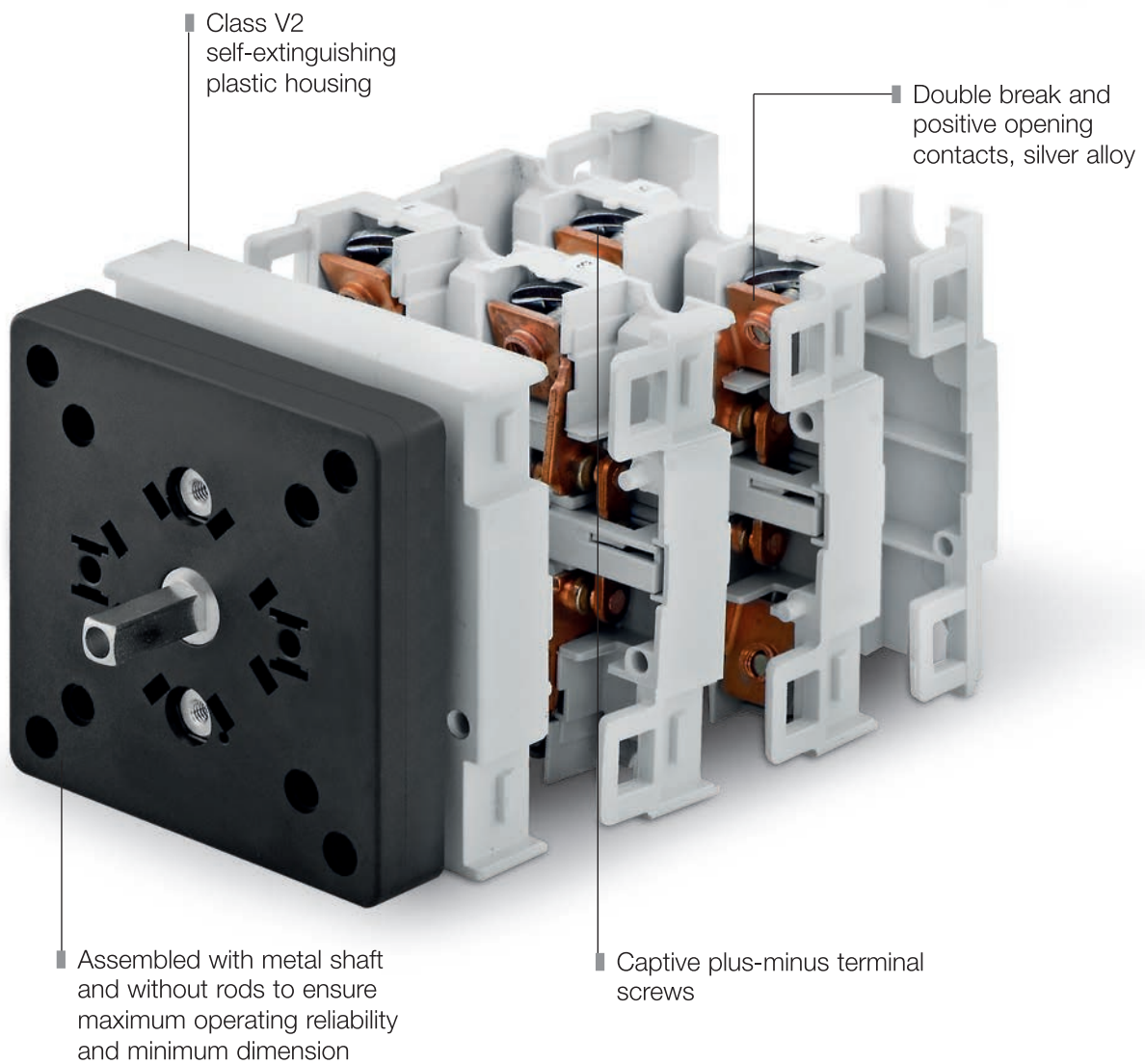


■ CQ 012-016

■ CQ 025-032

CQ series

- Terminal protection degree: IP20
- Class V2 self-extinguishing housing
- Metal shaft
- Captive plus-minus terminal screws
- Rear mounting and Base mounting
- Simplified wiring



Overview

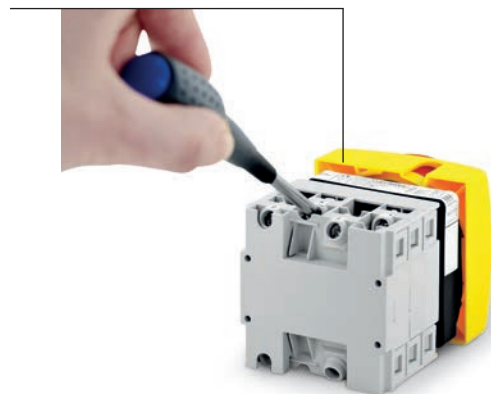
The range of cam switches **CQ series** includes ratings from 12 to 32A with insulation voltage of 690V. According to the latest industrial application standards, CQ series offers IP 20 terminals protection degree and up to IP66 handle protection degree.

Available with different mounting systems: rear panel with screws, base mounting with screws or snap mounting on DIN rail (EN 50022) with escutcheon plate for 45mm standard knock-out.

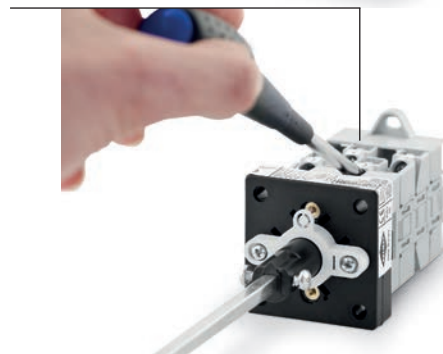
Available diagrams for every application: ON-OFF switches, line switches, cam switches for motor control, ammeter and voltmeter switches.

Easy made wiring

- Rear access to terminals screws for rear mounting versions



- Front access to terminals screws for base mounting versions



■ Escutcheon plate for 45mm (1.77") standard knock-out

45mm (1.77") plate for fixing in standard panel/distribution boards slots.

Available diagrams for ON-OFF switches, line switches, ammeter and voltmeter switches.

Rear mounting

4-screw fixing: □ 36mm (1.42")

4-screw fixing: □ 36mm (1.42") / □ 48mm (1.89")

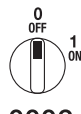
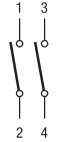


RV4

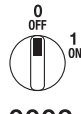



RV6

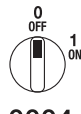

■ ON-OFF switch 2 pole

 0002	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
		S1	12A	CQ0120002RV4	1		
16A			CQ0160002RV4	1	CQ0160002RV6	1	
S2		25A			CQ0250002RV6	1	
		32A					

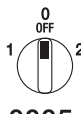

■ ON-OFF switch 3 pole

 0003	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
		S1	12A	CQ0120003RV4	1	CQ0120003RV6	1
16A			CQ0160003RV4	1	CQ0160003RV6	1	
S2		25A			CQ0250003RV6	1	
		32A			CQ0320003RV6	1	

■ ON-OFF switch 4 pole

 0004	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
		S1	12A	CQ0120004RV4	1	CQ0120004RV6	1
16A			CQ0160004RV4	1	CQ0160004RV6	1	
S2		25A			CQ0250004RV6	1	
		32A			CQ0320004RV6	1	

■ Change-over switch 1 pole

 0005	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
		S1	12A	CQ0120005RV4	1	CQ0120005RV6	1
16A							
S2		25A					
		32A					

 standard article

Rear mounting

4-screw fixing: □ 36mm (1.42")

4-screw fixing: □ 36mm (1.42") / □ 48mm (1.89")



RV4



RV6

Change-over switch 2 pole

 0006	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
				S1	12A	CQ0120006RV4	1
		16A	CQ0160006RV4	1	CQ0160006RV6	1	
		25A			CQ0250006RV6	1	
		32A			CQ0320006RV6	1	

Change-over switch 3 pole

 0007	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
				S1	12A	CQ0120007RV4	1
		16A	CQ0160007RV4	1	CQ0160007RV6	1	
		25A			CQ0250007RV6	1	
		32A			CQ0320007RV6	1	

Change-over switch 4 pole

 0039	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
				S1	12A	CQ0120039RV4	1
		16A	CQ0160039RV4	1	CQ0160039RV6	1	
		25A			CQ0250039RV6	1	
		32A			CQ0320039RV6	1	

Reversing switch 3 pole

 0008	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
				S1	12A	CQ0120008RV4	1
		16A	CQ0160008RV4	1	CQ0160008RV6	1	
		25A			CQ0250008RV6	1	
		32A			CQ0320008RV6	1	

Rear mounting

4-screw fixing: □ 36mm (1.42")

4-screw fixing: □ 36mm (1.42") / □ 48mm (1.89")



RV4



RV6

Changing switch Dahlander pole

<p>0009</p>		S1	12A	Part no. CQ0120009RV4	Pack 1	Part no. CQ0120009RV6	Pack 1
			16A	Part no. CQ0160009RV4	Pack 1	Part no. CQ0160009RV6	Pack 1
		S2	25A		Part no. CQ0250009RV6	Pack 1	
			32A		Part no. CQ0320009RV6	Pack 1	

STAR-DELTA Starter

<p>0010</p>		S1	12A	Part no.	Pack	Part no.	Pack
			16A	Part no. CQ0160010RV4	Pack 1	Part no. CQ0160010RV6	Pack 1
		S2	25A		Part no. CQ0250010RV6	Pack 1	
			32A		Part no. CQ0320010RV6	Pack 1	

Reversing switch pole changing

<p>0011</p>		S1	12A	Part no.	Pack	Part no.	Pack
			16A	Part no. CQ0160011RV4	Pack 1		
		S2	25A				
			32A				

Voltmeter switch 3 concatenated voltages

<p>0016</p>		S1	12A	Part no. CQ0120016RV4	Pack 1	Part no. CQ0120016RV6	Pack 1
			16A				
		S2	25A				
			32A				

standard article

Rear mounting

4-screw fixing: □ 36mm (1.42")

4-screw fixing: □ 36mm (1.42") / □ 48mm (1.89")

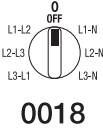


RV4

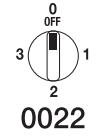


RV6

■ Voltmeter switch 3 concatenated voltages and 3 phase voltages

 0018	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
				S1	12A	CQ0120018RV4	1
			16A				
		S2	25A				
			32A				

■ Ammeter switch 1 pole 3 current transformers

 0022	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
				S1	12A	CQ0120022RV4	1
			16A				
		S2	25A				
			32A				

Rear mounting

4-screw fixing: 36mm (1.42")** / 48mm (1.89")***





Base mounting*



4-screw fixing: 36mm (1.42")** / 48mm (1.89")***



■ **ON-OFF switch 3 pole with padlockable handle**

 00G3	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
		S1	12A	CQ01200G3RL6S	1	CQ01200G3BL6S	1
			16A	CQ01600G3RL6S	1	CQ01600G3BL6S	1
		S2	25A	CQ02500G3RL6S	1	CQ02500G3BL6S	1
			32A	CQ03200G3RL6S	1	CQ03200G3BL6S	1

■ **ON-OFF switch 4 pole with padlockable handle**

 00G4	Circuit diagram	Size	I _e	Part no.	Pack	Part no.	Pack
		S1	12A	CQ01200G4RL6S	1	CQ01200G4BL6S	1
			16A	CQ01600G4RL6S	1	CQ01600G4BL6S	1
		S2	25A	CQ02500G4RL6S	1	CQ02500G4BL6S	1
			32A	CQ03200G4RL6S	1	CQ03200G4BL6S	1

* Base mounting switches are supplied with standard 175mm (6.89") shaft

** Fixing 36mm by 4 screws

*** Fixing 48mm by 4 screws and fixing adapter (included in the package)

Rear mounting

4-screw fixing: 36mm (1.42")** / 48mm (1.89")***



RK6S

Base mounting*

4-screw fixing: 36mm (1.42")** / 48mm (1.89")***



BK6S

■ ON-OFF switch 3 pole with padlockable handle

 00G3	Circuit diagram	Size	I _e	Part no.			
				Pack	Pack		
		S1	12A	CQ01200G3RK6S	1	CQ01200G3BK6S	1
			16A	CQ01600G3RK6S	1	CQ01600G3BK6S	1
		S2	25A	CQ02500G3RK6S	1	CQ02500G3BK6S	1
			32A	CQ03200G3RK6S	1	CQ03200G3BK6S	1

■ ON-OFF switch 4 pole with padlockable handle

 00G4	Circuit diagram	Size	I _e	Part no.			
				Pack	Pack		
		S1	12A	CQ01200G4RK6S	1	CQ01200G4BK6S	1
			16A	CQ01600G4RK6S	1	CQ01600G4BK6S	1
		S2	25A	CQ02500G4RK6S	1	CQ02500G4BK6S	1
			32A	CQ03200G4RK6S	1	CQ03200G4BK6S	1

* Base mounting switches are supplied with standard 175mm (6.89") shaft

** Fixing 36mm by 4 screws

*** Fixing 48mm by 4 screws and fixing adapter (included in the package)

Optional shafts

Part no.	Description	Pack
PALBL300	Shaft L=300mm 05	5
PALBL500	Shaft L=500mm 05	5
PALBL055	Shaft L=55mm 05	5
PALBL075	Shaft L=75mm 05	5
PALBL095	Shaft L=95mm 05	5
PALBL115	Shaft L=115mm 05	5
PALBL135	Shaft L=135mm 05	5
PALBL155	Shaft L=155mm 05	5
PALBL175	Shaft L=175mm 05	5



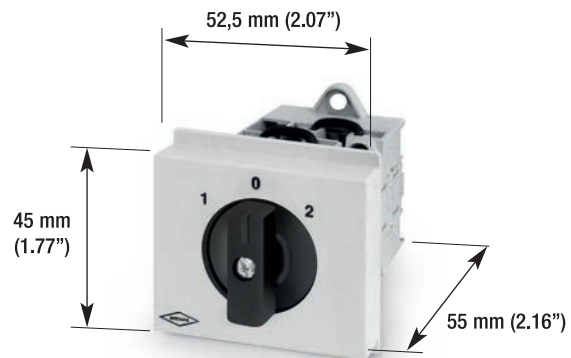
Construction data

DDN is the solution proposed by Bremas for mounting the switch in panel/distribution boards standard slots, with 45mm (1.77") plate.

The main mounting system is snap mount on DIN rail, otherwise it's possible to fix the switch with screws with 48mm (1.89") interaxis between the holes.

Available diagrams for ON-OFF switches, line switches, ammeter and voltmeter switches.

Grey escutcheon plate, black knob, IP40.



DDN version

Circuit diagram	Rated nominal current			
	12A		16A	
	Part no.	Pack	Part no.	Pack
DN07	CQ012DN07DDN	1	CQ016DN07DDN	1
DN08	CQ012DN08DDN	1	CQ016DN08DDN	1
DN09	CQ012DN09DDN	1	CQ016DN09DDN	1
DN10	CQ012DN10DDN	1	CQ016DN10DDN	1
DN16	CQ012DN16DDN	1		
DN18	CQ012DN18DDN	1		
DN22	CQ012DN22DDN	1		

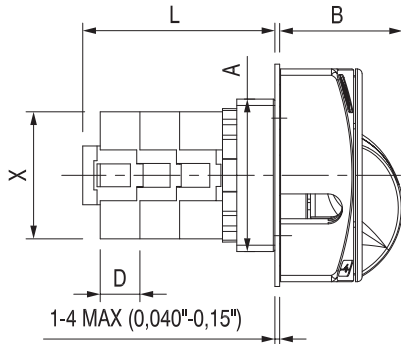
CQ Series - Circuit diagrams

cam switches

Switches																																																																																																																												
plate	circuit diagram	function	circuit diagram	contact/element description																																																																																																																								
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	DN10	Multi step switch 1 pole 3 steps with "OFF"		<table border="1"> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>Angle</td></tr> <tr><td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	3												X	2							X						1											X		0													Contact	1	2	3	4	5	6	7	8	9	10	11	12	Angle	Element	1	2	3																																																		
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	DN16	Voltmeter switch 3 concatenated voltages		<table border="1"> <tr><td>L3-L1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>L2-L3</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>L1-L2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>Angle</td></tr> <tr><td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	L3-L1												X	L2-L3							X		X		X		L1-L2							X		X		X		0													Contact	1	2	3	4	5	6	7	8	9	10	11	12	Angle	Element	1	2	3																																																		
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	DN18	Voltmeter switch 3 concatenated voltages and 3 phase voltages		<table border="1"> <tr><td>L3-N</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>L2-N</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L1-N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L1-L2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>L2-L3</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>L3-L1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>Angle</td></tr> <tr><td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	L3-N	X											X	L2-N							X						L1-N											X	X	0													L1-L2							X		X		X		L2-L3							X		X		X		L3-L1							X		X		X		Contact	1	2	3	4	5	6	7	8	9	10	11	12	Angle	Element	1	2	3											
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	DN22	Ammeter switch 1 pole 3 current transformers		<table border="1"> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Contact</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>Angle</td></tr> <tr><td>Element</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	3												X	2							X		X		X		1							X		X		X		0													Contact	1	2	3	4	5	6	7	8	9	10	11	12	Angle	Element	1	2	3																																																		
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■ Rear mounting (RT - RY - RL6 - RK6 - RR0 - RV - RW - RR)

Measures in mm (in)



Handle	B	
	mm	in
RT4-RY4	37	1,45
RT6-RY6	39	1,53
RL6-RK6	39	1,53
RV4-RW4	30	1,18
RV6-RW6	36	1,42
RR0	34	1,34

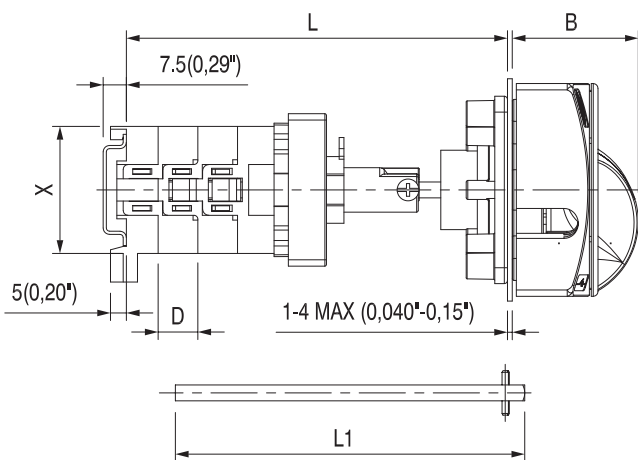
Switch dimensions

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

■ Base mounting - (BL - BK - BT - BY)

Switching angle 90°, padlockable (max 3 padlocks)

Measures in mm (in)



Handle	B	
	mm	in
BL6-BK6	39	1,53
BT4L-BY4L	40	1,57
BT6L-BY6L	40	1,57

Switch dimensions

Series	X	D	L1	N° Stages: 2	
				Lmin **	Lmax
CQ 012-016	40x40 1,57"x1,57"	12,5 0,49"	175 (6,89")*	115 (4,52")	259 (10,20")
			300 (11,81")	115 (4,52")	384 (15,12")
			500 (19,69")	115 (4,52")	584 (23,00")
CQ 025-032	63x62 2,48"x 2,44"	12,5 0,49"	175 (6,89")*	117 (4,60")	261 (10,27")
			300 (11,81")	117 (4,60")	386 (15,20")
			500 (19,69")	117 (4,60")	586 (23,07")

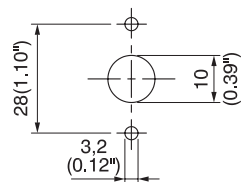
Overall length (min-max)** for different shaft lengths (L1)

* Standard shaft, bundled

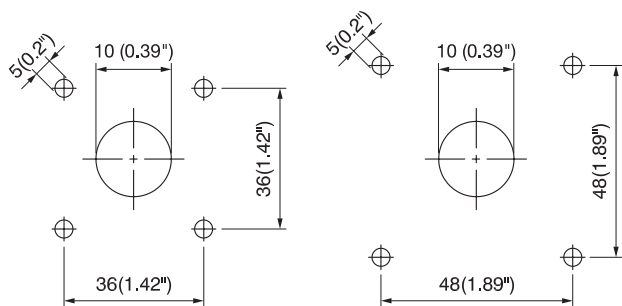
** Minimum length is obtainable by cutting the shaft

■ Rear mounting

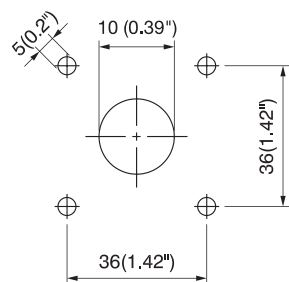
(RT - RY - RL6 - RK6 - RR0) - Measures in mm (in)



(RV6/RV6-T - RW6/RW6-T)



(RV4/RV4-T - RW4/RW4-T)

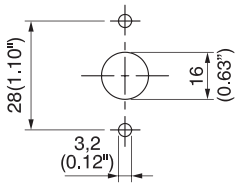


■ Base mounting

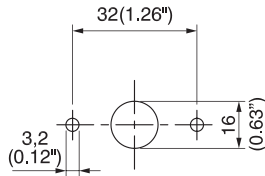
(BL - BK - BT - BY) - Measures in mm (in)

Escutcheon plate mounting options:

1) 2 holes with vertical distance 28mm (1.10")



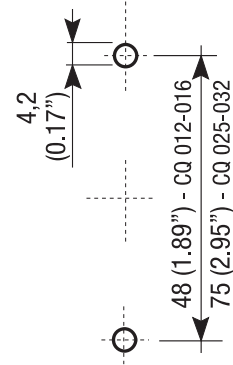
2) 2 holes with horizontal distance 32mm (1.26")



Switch mounting options:

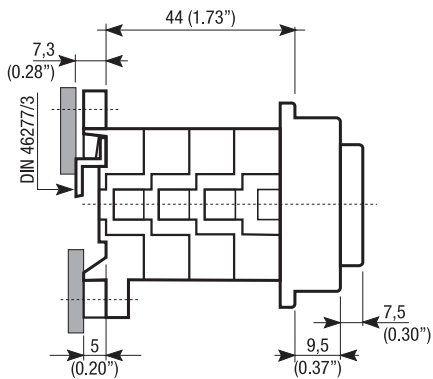
1) 2 holes with distance 58mm (2.28") - 72mm (2.83")

2) snap mount on DIN 46277/3 rail



■ Base mounting - DDN

Measures in mm (in)



■ Drilling templates - DDN

Measures in mm (in)

