

Product Details and Certifications

Cross Reference RA Part Number: 100Q-C37D11 A

 **Product: 100Q-C37D11**

Description: Contactor, Capacitor - Switching, 37A, 110V 50Hz / 120V 60Hz
1 N.O. - 1 N.C. Auxiliary Contact



Representative Photo Only (actual product may vary based on configuration sections)

CONTACTOR DATA



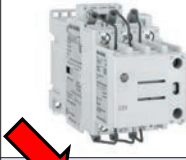


Bulletin Number	100Q Capacitor - Switch Contactor
Current Rating	37 A
Coil Voltage	110V 50Hz / 120V 60Hz
Number of Poles	3 Main Poles with Front Mount Resistor
Auxiliary Contact Configuration	1 N.O - 1 N.C.

CERTIFICATIONS AND APPROVALS

UL
CSA
IEC
CE

Contactors

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Bulletin	100-K/104-K	100-C/104-C	100Q-C	100-D/104-D	100-G
Screw Terminals	✓	✓	✓	Thru-hole Threaded (630...860 A)	Thru-hole
Spring Terminals	✓ (5...9 A)	✓ (9...16 A)	—	—	—
Max. Current I_e	12 A	97 A	37 A	860 A	1200 A
Current Rating	5...12 A	9...97 A	16, 32 A	115...860 A	550...1200 A
Features	<ul style="list-style-type: none"> Mini-contactors Uniform panel mounting dimensions Panel mounting or mounting on 35 mm DIN Rail AC or DC coil control Made of environmentally friendly materials 	<ul style="list-style-type: none"> Panel mounting or mounting on 35 mm DIN Rail AC or DC coil control Reversible coil terminals (line or load side) Common accessories Made of environmentally friendly materials 	<ul style="list-style-type: none"> Panel mounting or mounting on 35 mm DIN Rail AC or DC coil control Reversible coil terminals (line or load side) Common accessories Made of environmentally friendly materials 	<ul style="list-style-type: none"> Panel mounting only Made of environmentally friendly materials AC or DC coil control (conventional or electronic) Integrated PLC interface (electronic coil) 	<ul style="list-style-type: none"> Panel mounting AC or DC coil control Horizontal or vertical interlock Latching 4th pole
Contacts	3 power poles with internal N.O. or N.C. auxiliary contact, or 4 power poles. Optional front-mounted 2- or 4-pole external auxiliary contact block.	3 power poles with internal N.O. or N.C. auxiliary contact or 4 power poles. Optional front- or side-mounted 1-, 2- or 4-pole external auxiliary contact block.	3 main poles with front-mount resistor elements. Optional side-mounted 1-, 2- or 4-pole external auxiliary contact block.	3 power poles with external N.O. and N.C. side-mounted auxiliary contact. Optional side-mounted 2-pole external auxiliary contact blocks	3 power poles with N.O. and N.C. front-mounted auxiliary contact. Optional 4th pole and auxiliary contacts
Coil Voltages	AC = 24...600V, 50/60Hz DC = 12...250V	AC = 12...600V, 50/60Hz DC = 9...250V	AC = 12...600V, 50/60Hz DC = 12...250V	Conventional Coils Cat. Nos. 100-D115...D180 AC: 24...550V 50 Hz, 24...600V 60Hz, 100...277V 50/60Hz DC: 24...250V DC Electronic Coils Cat. Nos. 100-D115...D300 AC: 24...500V 50/60 Hz DC: 24...255V DC Cat. Nos. 100-D420 AC: 42...500V 50/60 Hz DC: 48...255V DC Cat. Nos. 100-D630...D860 AC: 100...600V 50/60 Hz DC: 110...255V DC	AC = 110...480V, 50/60Hz DC = 100...440V
Optional Overload Relays	Electronic or bimetallic	Electronic or bimetallic	—	Electronic	Electronic
Optional Accessories	<ul style="list-style-type: none"> Front-mount auxiliary contacts Surge suppressors Electronic timers Mechanical interlocks 	<ul style="list-style-type: none"> Front or side-mount auxiliary contacts Surge suppressors Electronic or pneumatic timers Mechanical interlocks Mechanical latches 	<ul style="list-style-type: none"> Side-mount auxiliary contacts Surge suppressors Electronic timers 	<ul style="list-style-type: none"> Side-mount auxiliary contacts Surge suppressors IP20 terminal blocks Terminal shields Terminal covers Connecting components Terminal lugs Mechanical/electrical interlocks 	<ul style="list-style-type: none"> Auxiliary contact 4th pole Vertical interlock Horizontal interlock Mechanical latch
Standards/Certifications	<ul style="list-style-type: none"> UL CSA IEC CE Marked CCC 	<ul style="list-style-type: none"> UL CSA IEC CE Marked CCC 	<ul style="list-style-type: none"> UL CSA IEC CE Marked 	<ul style="list-style-type: none"> UL CSA IEC CE Marked CCC (115...180 A - conventional coil; 140...420 A - electronic coil) 	<ul style="list-style-type: none"> UL CSA IEC CE Marked
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Cat. No. 100Q-C37A11

Bulletin 100Q-C — Capacitor-Switching Contactors

- Compact sizes
- Limits high inrush currents
- AC and DC coil control
- Reversible coil terminals
- Panel or 35 mm DIN Rail mounting
- Environmentally friendly materials

The Bulletin 100Q-C Capacitor-Switching contactors are designed for switching banks of capacitors. The unique design uses front-mounted resistor elements that limit the severely high inrush currents seen in these applications. This reduces stress to the contactors and the capacitors, as well as allowing a more compact and economical design without the use of air-core reactors.

Your order must include: cat. no. of the contactor specified with coil voltage code and, if required, cat. no. of any accessories.

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Standards Compliance

IEC 60947-4
 CSA C22.2 No. 14
 UL 508
 Meets the material restrictions for European Directive 2002/95/IEC-EU-RoHS

Certifications

CE Marked
 cULus Listed (File No. E 41850, Guide NLDX, NLDX7)



Product Selection

For Applications per IEC 60947-4 (AC-6b)

Ratings for Switching Capacitor Banks @ 40 °C

1-Phase 50 Hz (kVar)						3-Phase 50 Hz (kVar)						Aux. Contacts		Cat. No.
230V	240V	400V	415V	500V	690V	230V	240V	400V	415V	500V	690V	N.O.	N.C.	
5	5	8.5	9	10.5	15	8.5	8.5	15	15.5	18.5	25	1	1	100Q-C16®11
												2	0	100Q-C16®20
8	8.5	14	14.5	17.5	24	14	14	25	25	30	40	1	1	100Q-C37®11
												2	0	100Q-C37®20



Ratings for Switching Capacitor Banks @ 60 °C

1-Phase 50 Hz (kVar)						3-Phase 50 Hz (kVar)						Aux. Contacts		Cat. No.
230V	240V	400V	415V	500V	690V	230V	240V	400V	415V	500V	690V	N.O.	N.C.	
5	5	8.5	9	10.5	15	8.5	8.5	15	15.5	18.5	25	1	1	100Q-C16®11
												2	0	100Q-C16®20
8	8.5	14	14.5	17.5	24	14	14	25	25	30	40	1	1	100Q-C37®11
												2	0	100Q-C37®20



For Applications per UL/CSA

Ratings for Switching Capacitor Banks

1-Phase 60 Hz (kVar)			3-Phase 60 Hz (kVar)				Aux. Contacts		Cat. No.
115V	230V	200V	230V	460V	600V	N.O.	N.C.		
2.2	4.5	6.5	7.5	15	18.5	1	1	100Q-C16®11	
						2	0	100Q-C16®20	
3.6	7.5	11	12.5	20	25	1	1	100Q-C37®11	
						2	0	100Q-C37®20	



⊗ **Coil Voltage Code**

The Cat. No. as listed is incomplete. Select a coil voltage code from the table below to complete the Cat. No. Example: 120V, 60 Hz:

Cat. No. 100Q-C16®11 becomes Cat. No. 100Q-C16D11.

[V]	12	24	32	36	42	48	100	110	120	127	200	200-220	208	240	220-230	230	230-240	240	277	347	380	380-400	400	400-415	440	480	500	550	600
50 Hz	R	K	V	W	X	Y	KP	D	P	S	KG	L	—	—	F	—	VA	T	—	—	—	N	—	G	B	—	M	C	—
60 Hz	Q	J	—	V	—	X	—	KP	—	D	—	KG	H	L	—	—	—	A	T	I	E	—	—	—	N	B	—	—	C
50/60 Hz	—	KJ	—	—	—	KY	KP	—	KD	—	—	KG	KL	—	—	KL	KF	—	KA	—	—	—	—	KN	—	KB	—	—	—

DC Voltages [V]	9	12	24	36	48	60	64	72	80	110	110-125	115	125	220	220-250	230	250
Standard	ZR	ZQ	ZJ	ZW	ZY	ZZ	ZB	ZG	ZE	ZD	—	ZP	ZS	ZA	—	ZF	ZT
with Integrated Diode	—	—	DJ	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electronic with Integrated Diode	—	EQ	EJ	—	—	—	—	—	—	—	ED	—	—	—	EA	—	—

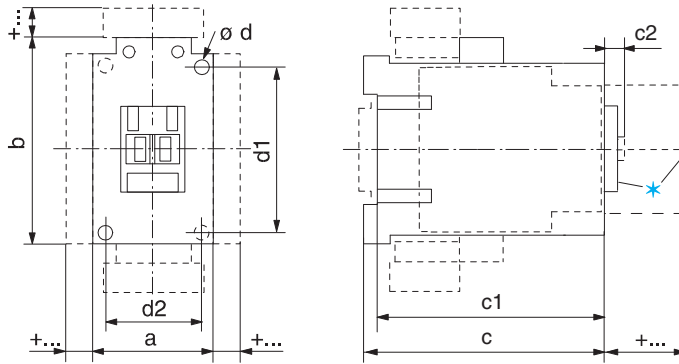
Maximum Operational Rates

100Q-C16 200 operations/hour
 100Q-C37 100 operations/hour

Bulletin 100Q-C
IEC Capacitor-Switching Contactors
 Approximate Dimensions

Bulletin 100Q-C Contactors

Dimensions are in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



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AC Contactors and DC Contactors with 12V or 24V Electronic Coils

Cat. No.	a	b	c	c1	c2	Ød	d1	d2
100Q-C16	45 (1-25/32)	81 (3-3/16)	119.5 (4-3/4)	114.5 (4-43/64)	6 (15/64)	2 - 4.5 (2 -3/16)	60 (2-23/64)	35 (1-3/8)
100Q-C37	45 (1-25/32)	81 (3-3/16)	136.5 (5-37/64)	131.6 (5-11/32)	6.5 (1/4)	2 - 4.5 (2 -3/16)	60 (2-23/64)	35 (1-3/8)

DC Contactors with Conventional Coils

Cat. No.	a	b	c	c1	c2	Ød	d1	d2
100Q-C16Z	45 (1-25/32)	81 (3-3/16)	145.5 (5-49/64)	140.5 (5-37/64)	6 (15/64)	2 - 4.5 (2 -3/16)	60 (2-23/64)	35 (1-3/8)
100Q-C37Z	45 (1-25/32)	81 (3-3/16)	180.5 (7-5/32)	175.5 (6-61/64)	6.5 (1/4)	2 - 4.5 (2 -3/16)	60 (2-23/64)	35 (1-3/8)

DC Contactors with 110V or 220V DC Electronic Coils

Cat. No.	a	b	c	c1	c2	Ød	d1	d2
100Q-C16EA, 100Q-C16ED	45 (1-25/32)	105 (4-1/8)	119.5 (4-3/4)	114.5 (4-43/64)	6 (15/64)	2 - 4.5 (2 -3/16)	60 (2-23/64)	35 (1-3/8)
100Q-C37EA, 100Q-C37ED	45 (1-25/32)	105 (4-1/8)	136.5 (5-37/64)	131.6 (5-11/32)	6.5 (1/4)	2 - 4.5 (2 -3/16)	60 (2-23/64)	35 (1-3/8)