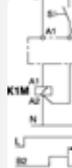
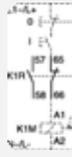


Bulletin 100-C Contactors

Bulletin 100-C/104-C Accessories

Auxiliary Contacts (For 100-C09...C97 contactors)

	Description		Connection Diagrams	For Use With	Cat. No.
	Pneumatic Timing Modules • Pneumatic timing element contacts switch after the delay time. The contacts on the main control relay continue to operate without delay.	On-Delay 0.3...30 s Range		100-C or 700-CF with AC coils or DC electronic coils§	100-FPTA30
		2...180 s Range			100-FPTA180
		Off-Delay 0.3...30 s Range		100-C all, 700-CF all	100-FPTB30
		2...180 s Range			100-FPTB180
	Electronic Timing Modules – On-Delay Delay of the contactor or control relay solenoid. The contactor or control relay is energized at the end of the delay time.	0.1...3 s Range		100-C or 700-CF with 110...240V, 50/60 Hz or 110...250V conventional DC coils	100-ETA3
		1...30 s Range			100-ETA30
		10...180 s Range			100-ETA180
		0.1...3 s Range		100-C or 700-CF with 24...48V conventional DC coils or 24V DC electronic coils	100-ETAZJ3
		0.1...3 s Range			100-ETA3
		10...180 s Range			100-ETAZJ180
	Electronic Timing Modules – Off-Delay Delay of the contactor or control relay solenoid. After interruption of the control signal, the contactor or control relay is deenergized at the end of the delay time.	0.3...3 s Range		100-C09...C37 or 700-CF with 24V 50/60 Hz coils	100-ETBKJ3
		1...30 s Range			100-ETBKJ30
		10...180 s Range			100-ETBKJ180
		0.3...3 s Range		100-C or 700-CF with 110...240V 50/60 Hz coils	100-ETB3
		1...30 s Range			100-ETB30
		10...180 s Range			100-ETB180
	Electronic Timing Modules • Delay of the contactor solenoid. Contactor K 3 (Y) is de-energized (off) and K 2 (D) is energized (on) after the end of the set Y end time. (Switching delay at 50 ms.) • Continuous adjustment range • High repeat accuracy	Transition Time Y Contactor 1...30 s Range		100-C with 110...240V, 50/60 Hz coils	100-ETY30
		Mechanical Interlocks • For interlocking of two contactors. • Common interlock for all Bul. 100-C contactor sizes • Interlocking of different sizes possible • Mechanical and electrical interlocking possible in one module by means of integrated auxiliary contacts • 9 mm dovetail connector included	Mechanical only, without auxiliary contacts		100-C (except 100-C40, -C90)
Mechanical/ electrical interlock with 2 N.C. auxiliary contacts			100-C (except 100-C40, -C90)	100-MCA02	
Mechanical Latch • Following contactor latching, the contactor coil is immediately de-energized (off) by the N.C. auxiliary contact (65-66). • Electrical or manual release • 1 N.O. + 1 N.C. auxiliary contacts • Suitable for all Bul. 100-C contactor sizes, 9...97 A	Maximum command duration 0.03...10 s			100-C with AC or DC electronic coils (except 100-C90)	100-FL11⊗

§ Cannot be used with side-mounted auxiliary contacts on 700-CF DC relays.

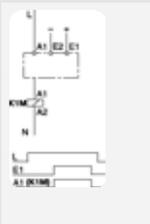
⊗ Coil Voltage Code

The cat. no. as listed is incomplete. Select a voltage suffix code from the table below to complete the cat. no. Example: 120V, 60 Hz: Cat. No. 100-FL11⊗ becomes Cat. No. 100-FL11D.

Voltage* [V]	24	48	100	110	120	230...240	240	277	380...400	400...415	440	480
50 Hz	K	Y	KP	D	—	VA	KA	—	N	G	B	—
60 Hz	J	—	—	—	D	—	KA	T	—	—	N	B

* For special voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

Control Modules (For 100-C09...C97 contactors), Continued

	Description	Voltage Range	Connection Diagrams	For Use With	Cat. No.
	DC Interface (Electronic) <ul style="list-style-type: none"> Interface between the DC control signal (PLC) and the AC operating mechanism of the contactor. Requires no additional surge suppression on the relay coils 	Input: 12V DC Output: 110...240V AC Input: 24V DC Output: 110...240V AC Input: 48V DC Output: 110...240V AC		100-C with AC coils 110...240V AC	100-JE12 100-JE 100-JE48
	Surge Suppressors <ul style="list-style-type: none"> For limitation of coil switching transients. Plug-in, coil mounted. Suitable for 100-C contactor sizes, 9...97 A. RC, varistor, and diode versions. 	RC Module AC operating mechanism 24...48V AC, 50/60 Hz 110...280V AC, 50/60 Hz 380...480V AC, 50/60 Hz		100-C with AC coils	§ 100-FSC48 § 100-FSC280 § 100-FSC480
Varistor Module AC/DC operating mechanism 12...55V AC/ 12...77V DC 56...136V AC/ 78...180V DC 137...277V AC/ 181...350V DC 278...575V AC			100-C with AC coils or 100-C09...-C43 with conventional DC coils	§ 100-FSV55 § 100-FSV136 § 100-FSV277 § 100-FSV575	
Diode Module DC operating mechanism 12...250V DC			100-C09...-C43 with conventional DC coils	§ 100-FSD250	

§ For screwless terminals, insert "CR" after the "100-" in the catalog number. Example: Cat. No. 100-FSC48 becomes Cat. No. 100-CRFSC48.

Assembly Components (For 100-C09...C97 contactors)

	Description	For Use With	Pkg. Quantity	Cat. No.
	Dovetail Connectors <ul style="list-style-type: none"> For use in contactor and starter assemblies. Single Connector — 0 mm Spacing 	100-C	10	100-S0
Cat. No. 100-S0	Dovetail Connectors <ul style="list-style-type: none"> For use in contactor and starter assemblies. Dual Connector — 9 mm Spacing 		10	100-S9
	Protective Covers <ul style="list-style-type: none"> Provides protection against unintended manual operation For contactors and front-mounted auxiliary contacts, pneumatic timers, and latches 	100-C all	1	100-SCCA
Cat. No. 100-SCCA		100-FA, -FB, -FC, -FP, -FL;	10	100-SCFA
	Reversing Power Wiring Kits <ul style="list-style-type: none"> For reversing connection with a solid-state or thermal overload relay 	100-C09...C23	1	105-PW23
Cat. No. 105-PW23		100-C30...C37	1	105-PW37
		100-C43...C55	1	105-PW55
		100-C60...C97	1	105-PW85
	DIN (#3) symmetrical hat rail 35 x 7.5 x 1 m	140M-D 140M-F 100-C all	10	199-DR1

Wye-Delta/Star-Delta Starter Kits

Wye-Delta power wiring kits were designed to aid in the field assembly of open-transition wye-delta starters that use Bulletin 100-C contactors. These kits include line, load, and start-point (shorting) connections. Assembling a wye-delta starter requires the use of the following additional components:

- Contactors
- Overload Relay
- Cat. No. 100-MCA02 Mechanical/Electrical Interlock
- Cat. No. 100-ETY30 Electronic Y-Δ Timer
- Cat. No. 100-S9 Base Coupler for 1M to 2M contactor (optional)

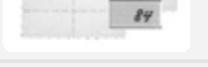
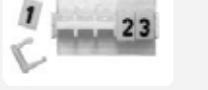


Cat. No. 170-PW23

3-Phase Rating											Pkg. Qty.	Cat. No.
kW (50 Hz)				Hp (60 Hz)				Use with Cat. No. 100-				
230V	380/415V	500V	690V	200V	230V	460V	575V	Delta		Wye		
								1M	2M	1S		
5.5	8	8	8	5	5	10	10	C09	C09	C09	1	170-PW23
7.5	11	11	11	5	7.5	15	15	C12	C12	C09	1	170-PW23
10	14	15	14	7.5	10	20	20	C16	C16	C12	1	170-PW23
14	21	21	19	7.5	10	25	25	C23	C23	C12	1	170-PW23
18	28	28	28	10	15	30	30	C30	C30	C16	1	170-PW37
19	35	35	32	15	20	40	40	C37	C37	C23	1	170-PW37
30	45	45	45	25	30	60	60	C55	C55	C30	1	170-PW55
33	58	60	56	30	40	75	75	C60	C60	C37	1	170-PW72
39	69	67	70	40	50	100	100	C72	C72	C43	1	170-PW72
47	82	82	81	50	60	125	125	C85	C85	C60	1	170-PW85
50	90	90	90	50	60	125	125	C97	C97	C60	1	170-PW85

Package Quantity = 1

Marking Systems (For 100-C09...C97 contactors)

	Description	Pkg. Qty.★	Cat. No.
	Label Sheet 105 self-adhesive paper labels each, 6 x 17 mm	10	100-FMS
	Marking Tag Sheet 160 perforated paper labels each, 6 x 17 mm, to be used with a transparent cover	10	100-FMP
	Transparent Cover To be used with marking tag sheets	100	100-FMC
	Marking Tag Adapters To be used with marking tag: System V4/V5	100	100-FMA1
	Marking Tag Adapters To be used with marking tag: System 1492 W	100	100-FMA2

★ Must be ordered in multiples of package quantities.

Terminal Kits (For 100-C09...C97 contactors)

	Description	Max. Current Ratings and Wire Sizes		Pkg. Qty.*	Cat. No.
	Stab Connector Kit Dual stab (0.250 in.) for 100-C coil terminals For 100-C09...C97 contactors			20	199-SC2
	Stab Connector Kit Dual stab (0.250 in.) for 100-C power terminals For 100-C09...C23 contactors			100	199-SC10
	3-Pole Terminal Lug Kit For Cat. No. 100-C09...C23 (Line side)	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	45 A (4...16 mm2‡, fine stranded w/ ferrule) 45 A (4...25 mm2, coarse stranded/solid) 40 A (#10...4 AWG, stranded/solid)	1	100-CTN23
	3-Pole Terminal Lug Kit For Cat. No. 100-C09...C23 (Load side)	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	45 A (4...16 mm2‡, fine stranded w/ ferrule) 45 A (4...25 mm2, coarse stranded/solid) 40 A (#10...4 AWG, stranded/solid)	1	100-CTL23
	3-Pole Terminal Lug Kit For Cat. No. 100-C30...C37 (Line and load side)	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	60 A (4...16 mm2‡, fine stranded w/ ferrule) 60 A (4...25 mm2, coarse stranded/solid) 55 A (#10...4 AWG, stranded/solid)	1	100-CT37
	1-Pole Terminal Lug Kit For Cat. No. 100-C43...C55	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	90 A (6...35 mm2, fine stranded w/ ferrule) 90 A (6...50 mm2, coarse stranded/solid) 75 A (#8...2 AWG, stranded/solid)	3	100-CT43
	1-Pole Terminal Lug Kit For Cat. No. 100-C60...C97	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	130 A (10...70 mm2, fine stranded w/ ferrule) 130 A (10...95 mm2, coarse stranded/solid) 130 A (#8...2/0 AWG, stranded/solid)	3	100-CT85
	3-Pole Paralleling Kit For Cat. No. 100-C09...C23	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	100 A (35...70 mm2, fine stranded w/ ferrule) 100 A (35...95 mm2, coarse stranded/solid) 100 A (#0...2/0 AWG, stranded/solid)	2	100-CP23
	3-Pole Paralleling Kit For Cat. No. 100-C30...C37	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	150 A (35...70 mm2, fine stranded w/ ferrule) 150 A (35...95 mm2, coarse stranded/solid) 150 A (#0...2/0 AWG, stranded/solid)	2	100-CP37

* Must be ordered in multiples of the package quantity.

‡ 16 mm2 max. according to IEC 60947; actual max. 25 mm2.

SEMI-F47 Voltage Sag Immunity Module

	Description	Input Voltage	For Use With§	Options	Cat. No.
	SEMI-F47 Module <ul style="list-style-type: none"> Meets SEMI-F47 voltage sag immunity requirements Direct mounting to coil terminals of 100-C contactors and 700-CF control relays Requires DC coil contactor Optional 1...30 s ON-delay timer version 	24...240V AC	100-C60...C97 700-CF	without timer	100-CSF47
		110...240V AC	100-C60...C97 700-CF	with 1...30 s ON-delay timer	100-CSF47A30

§ Contactor must have DC coil at the same voltage as AC input. Example: for 24V AC control, select Cat. No. 100-C09ZJ10 (24V DC coil).