
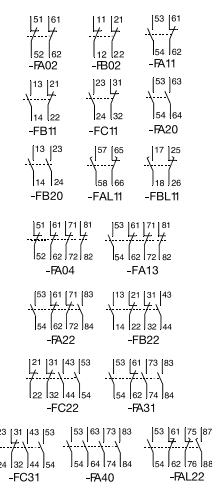




Accessories





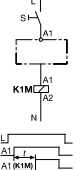
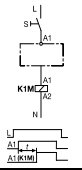

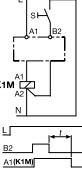
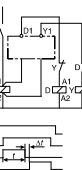

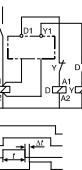




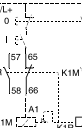
Auxiliary Contact Blocks

	Description ⁽¹⁾	Connection Diagrams			For Use With	Cat. No.					
			N.O.	N.C.		Standard Auxiliary Contact ⁽²⁾	Bifurcated Auxiliary Contact				
 <p>Auxiliary Contact Blocks for Front Mounting</p> <ul style="list-style-type: none"> • 2- and 4-pole • Quick and easy mounting without tools • Electronic-compatible contacts down to 17V, 5mA • Mechanically linked performance between N.O. and N.C. poles and to the main contactor poles (except for L types) • Models with equal function with several terminal numbering choices • 1L = Late break N.C. / early make N.O. • Bifurcated version for switching down to 5V, 3 mA also available 			0	2	100-C all	100-FA02	100-FAB02				
							C30×00...C97×00	100-FB02	100-FBB02		
						1	1	100-C all	100-FA11	100-FAB11	
								C30×00...C97×00	100-FB11	100-FBB11	
								C09×10...C23×10	100-FC11	100-FCB11	
						2	0	100-C all	100-FA20	100-FAB20	
								C30×00...C97×00	100-FB20	100-FBB20	
						1L	1L	100-C all	100-FAL11	—	
								C30×00...C97×00	100-FBL11	—	
						0	4	100-C all	100-FA04	100-FAB04	
						1	3	100-C all	100-FA13	100-FAB13	
						2	2	100-C all	100-FA22	100-FAB22	
									C30×00...C97×00	100-FB22	100-FBB22
									C09×10...C23×10	100-FC22	100-FCB22
						3	1	100-C all	100-FA31	100-FAB31	
				C09×10...C23×10	100-FC31			100-FCB31			
			4	0	100-C all	100-FA40	100-FAB40				
			1+1L	1+1L	100-C all	100-FAL22	—				
 <p>Auxiliary Contact Blocks for Side Mounting without Sequence Terminal Designations</p> <ul style="list-style-type: none"> • 1- and 2-pole • Two-way numbering for right or left mounting on the contactor • Quick and easy mounting without tools • Electronic-compatible contacts down to 17V, 10 mA • Mirror contact performance to the main contactor poles • 1L = Late break N.C. / early make N.O. 			0	1	100-C all	100-SA01	—				
						1	0	100-C all	100-SA10	—	
						0	2	100-C all	100-SA02	—	
						1	1	100-C all	100-SA11	—	
						2	0	100-C all	100-SA20	—	
						1L	1L	100-C all	100-SAL11	—	
 <p>Auxiliary Contact Blocks for Side Mounting with Sequence Terminal Designations</p> <ul style="list-style-type: none"> • 1- and 2-pole • Two-way numbering for right or left mounting on the contactor • Quick and easy mounting without tools • Electronic-compatible contacts down to 17V, 10 mA • Mirror contact performance to the main contactor poles • 1L = Late break N.C. / early make N.O. 			0	1	100-C	100-SB01	—				
						1	0	100-C ⁽³⁾	100-SB10	—	
						0	2	100-C ⁽³⁾	100-SB02	—	
						1	1	100-C ⁽³⁾	100-SB11	—	
						2	0	100-C ⁽³⁾	100-SB20	—	
						1L	1L	100-C ⁽³⁾	100-SBL11	—	

(1) Max. number of auxiliary contacts that may be mounted:
 AC and 24V DC electronic coil contactors—max. 4 N.O. contacts on the front of the contactor, 2 N.O. contacts on the side, 4 N.C. front or side, 6 total. DC Coil contactors—max. 4 N.O. contacts on the front of the contactor or max. 2 N.O. contacts on the side, 4 N.C. front or side, 4 total.
 (2) For screwless terminals (front mount only), insert "CR" after the "100-" in the catalog number. Example: Cat. No. 100-FA02 becomes Cat. No. 100-CRFA02.
 (3) Double numbering—Left-side mounting only is recommended for Cat. No. 100-C09...100-C23 due to double numbering.

Control Modules

Timers

	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 	100-C or 700-CF with AC or 24V DC electronic coils ⁽¹⁾	100-FPTA30
		2...180 s		100-FPTA180
		Off-Delay 0.3...30 s 	100-C all, 700-CF all	100-FPTB30
		2...180 s		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 	100-C or 700-CF with 110...240V, 50/60Hz or 110...250V DC coils	100-ETA3
		1...30 s		100-ETA30
		10...180 s		100-ETA180
		0.1...3 s 	100-C or 700-CF with 24...48VDC coils	100-ETAZ3
		1...30 s		100-ETAZ30
		10...180 s		100-ETAZ180
	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 de-energized at the end of the delay time.	0.3...3 s 	100-C09...C37 or 700-CF with 24V 50/60Hz	100-ETBKJ3
		1...30 s		100-ETBKJ30
		10...180 s		100-ETBKJ180
		0.3...3 s 	100-C or 700-CF with 110...240V 50/60Hz coils	100-ETB3
		1...30 s		100-ETB30
		10...180 s		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	Transition Time Y Contactor 1...30 s 	100-C with 110...240V 50/60Hz coils	100-ETY30
	Mechanical Interlocks • For interlocking of two contactors. • Common interlock for most Bul. 100-C contactor sizes • Interlocking or 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)	100-MCA00
		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 24V DC electronic coils (except 100-C90)	100-FL11⊗


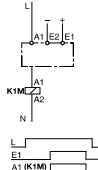

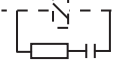
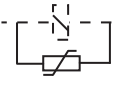

(1) Cannot be used with side-mounted auxiliary contacts on 700-CF DC relays.

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

AC Voltages [V] ⁽¹⁾	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


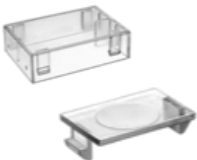


(1) For special voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

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		100-C with AC coils 110...240V AC	100-JE12
			Input: 18...30V DC Output: 110...240V AC			100-JE
			Input: 48V DC Output: 110...240V AC			100-JE48
	RC Module AC operating mechanism	24...48V AC, 50/60 Hz		100-C with Coils	100-FSC48 ⁽¹⁾	
		110...280V AC, 50/60 Hz			100-FSC280 ⁽¹⁾	
		380...480V AC, 50/60 Hz			100-FSC480 ⁽¹⁾	
	Varistor Module AC/DC operating mechanism	12...55V AC, 12...77V DC		100-C with AC coils or 100-C09...-C43 with DC coils	100-FSV55 ⁽¹⁾	
		56...136V AC/78...180V DC			100-FSV136 ⁽¹⁾	
		137...277V AC/181...350V DC			100-FSV277 ⁽¹⁾	
		278...575V AC			100-FSV575 ⁽¹⁾	
	Diode Module DC operating mechanism	1...30 s 10...180 s		100-C09...-C43 with DC coils	100-FSD250 ⁽¹⁾	

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


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

	Description	For Use With	Pkg. Qty.	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
	Dovetail Connectors <ul style="list-style-type: none"> For use in contactor and starter assemblies Single Connector — 9mm spacing 		10	
	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
		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
		100-C30...C37	1	105-PW37
		100-C43...C55	1	105-PW55
		100-C60...C97	1	105-PW85
	DIN (#3) symmetrical hat rail <ul style="list-style-type: none"> 35 x 7.5 x 1 m 	140M-D 140M-F 100-C all	10	199-DR1



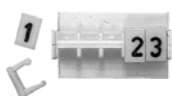
Wye-Delta/Star-Delta Starter Kits

Wye-Delta power wiring kits are 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- Timer
- Cat. No. 100-S9 Base Coupler for 1M to 2M contactor (optional)






	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	7.5	7.5	7.5	5	5	10	10	C09	C09	C09	1	170-PW23
	7.5	11	11	10	5	7.5	15	15	C12	C12	C09	1	170-PW23
	10	15	15	13	7.5	10	20	20	C16	C16	C12	1	170-PW23
	13	22	22	18.5	7.5	10	25	25	C23	C23	C12	1	170-PW23
	17	25	25	25	10	15	30	30	C30	C30	C16	1	170-PW37
	20	37	32	32	15	20	40	40	C37	C37	C23	1	170-PW37
	22	40	40	40	20	25	50	50	C43	C43	C30	1	170-PW55
	30	45	45	45	25	30	60	60	C55	C55	C37	1	170-PW55
	32	55	55	55	30	40	75	75	C60	C60	C37	1	170-PW72
	40	63	63	63	40	50	100	100	C72	C72	C43	1	170-PW72
	50	80	80	80	50	60	125	125	C85	C85	C60	1	170-PW85
	50	90	90	90	50	60	125	125	C97	C97	C60	1	170-PW85

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

	Description	Pkg. Qty. ⁽¹⁾	Cat. No.
	Label Sheet • 105 self-adhesive paper labels each, 6 x 17 mm	10	100-FMS
	Marking Tag Sheet • 106 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 V7	100	100-FMA1
	Marking Tag Adapters • To be used with marking tag: System 1492 W	100	100-FMA2


(1) Must be ordered in multiples of package quantities

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

	Description	Max. Current Ratings and Wire Sizes	Pkg. Qty ⁽²⁾	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 mm ² , fine stranded w/ ferrule) ⁽¹⁾ 45 A (4...25 mm ² , 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 mm ² , fine stranded w/ ferrule) 45 A (4...25 mm ² , 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 mm ² , fine stranded w/ ferrule) 60 A (4...25 mm ² , coarse stranded/solid) 55 A (#10...4 AWG, stranded/solid)	1	100-CT37
	1-Pole Terminal Lug Kit • For Cat. No. 100-C43	IEC @ 40 °C IEC @ 40 °C UL/CSA (Encl.)	90 A (6...35 mm ² , fine stranded w/ ferrule) 90 A (6...50 mm ² , 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 mm ² , fine stranded w/ ferrule) 130 A (10...95 mm ² , 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 mm ² , fine stranded w/ ferrule) 100 A (35...95 mm ² , 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 mm ² , fine stranded w/ ferrule) 150 A (35...95 mm ² , coarse stranded/solid) 150 A (#0...2/0 AWG, stranded/solid)	2	100-CP37

(1) 16 mm² max. according to IEC 60947; actual max. 25 mm²
 (2) Must be ordered in multiples of the package quantity.

SEMI-F47 Voltage Sag Immunity Module

	Description	Input Voltage	For Use With ⁽¹⁾	Options	Cat. No.
	SEMI-F47 Module • 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	without timer	100-CSF47
		110...240V AC	100-C60...C97	with 1...30 s ON-delay timer	100-CSF47A30

(1) 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).