#### Auxiliary Contacts (For 100-C09...C85 contactors)\*

		_/_				
	Description	N.O.	N.C.	For Use With	Cat. No.*	
		0 2	100-C all	100-FA02		
		0	2	C30⊗00C85⊗00	100-FB02	
	Auxiliary Contact Blocks for Front Mounting 2- and 4-pole Quick and easy mounting without tools Electronic-compatible contacts down to 17V, 5 mA Mechanically linked			100-C all	100-FA11	
		1	1	C30⊗00C85⊗00	100-FB11	
				100-FC11		
		2	0	100-C all	100-FA20	
		2	0	C30⊗00C85⊗00	100-FB20	
		41	1L 1L	100-FAL11		
	performance between N.O. and			C30⊗00C85⊗00	100-FBL11	
	N.C. poles and to the main contactor poles (except for L	0	4	100-C all	100-FA04	
	types)	1	3	100-C all	100-FA13	
	Models with equal function with several terminal numbering			100-C all	100-FA22	
1000	choices	2	2	C30⊗00C85⊗00	100-FB22	
° — 0	1L = Late break N.C./early make N.O.			C09⊗10C23⊗10	100-FC22	
	Bifurcated version for switching	3	1	100-C all	100-FA31	
	down to 5V, 3 mA ‡	3	1	C09⊗10C23⊗10	100-FC31	
		4	0	100-C all	100-FA40	
		1+1L	1+1L	100-C all	100-FAL22	

 Description	N.O.	N.C.	For Use With		Cat. No.	
	0	1	100-C	*	100-SB01	
Auxiliary Contact Blocks for Side Mounting with Sequence Terminal Designations 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.	1	0	100-C‡	*	100-SB10	
	0	2	100-C‡	*	100-SB02	
	1	1	100-C‡	*	100-SB11	
	2	0	100-C‡	*	100-SB20	
	1L	1L	100-C‡	*	100-SBL11	

\* Max. number of auxiliary contacts that may be mounted:

AC 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.

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Double numbering — Left-side mounting only is recommended for cat. no. 100-C09...100-C23 due to double numbering.

## **Rockwell Automation**

## Control Modules (For 100-C09...C85 contactors)

	Descriptio	n	For Use With	Cat. No.	
	Pneumatic Timing Modules Pneumatic timing element contacts switch after the delay	<b>On-Delay</b> 0.330 s Range 1.8180 s Range	100-C with AC coils, 700-CF all	100-FPTA30 100-FPTA180	
	time. The contacts on the main control relay continue to operate without delay.	<b>Off-Delay</b> 0.330 s Range 1.8180 s Range	100-C all, 700-CF all	100-FPTB30 100-FPTB180	
	Electronic Timing Modules – On-Delay Delay of the contactor or control relay solenoid.	On-Delay 0.13 s Range 130 s Range 10180 s Range 110240V, 50/60 Hz 110250V DC	100-C (all), 700-CF 110240V 50/60 Hz 110250V DC	100-ETA3 100-ETA30 100-ETA180	
	The contactor or control relay is energized at the end of the delay time.	On-Delay 0.13 s Range 130 s Range 10180 s Range 2448V DC	100-C with DC coils, 700-CF with DC coils	100-ETAZJ3 100-ETAZJ30 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 de-energized at the end of the delay time.	Off-Delay 0.33 s Range 130 s Range 10180 s Range 110240V, 50/60 Hz	100-C with AC coils, 700-CF with AC coils	100-ETB3 100-ETB30 100-ETB180	
		Off-Delay 0.33 s Range 130 s Range 10180 s Range 24V, 50/60 Hz	100-C with AC coils, 700-CF with AC coils	100-ETBKJ3 100-ETBKJ30 100-ETBKJ180	
	Electronic Timing Modules – 100-ETY 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 130 s Range 110240V, 50/60 Hz	100-C with AC coils	100-ETY30	

# Bulletin 100-C Contactors Accessories

#### Control Modules (For 100-C09...C85 contactors), continued

	Descriptio	n	For Use With	Cat. No.	
		<ul> <li>22.5 mm width</li> <li>Supply Voltage (A1/A2)</li> </ul>		700-FSY2DU23	
	Timing Relay Output Y picks up when the supply voltage is applied and resets again after time	U23 2448V DC, 24240V AC, 50/60 Hz A40 346440V AC, 50/60 Hz	100-M, 100-C, 100-D	700-FSY2DU23	
	Timing Relay Output Y picks up when the supply voltage is applied and resets again after time t. After a fixed changeover time tu, output relay ∆ picks up and remains energized until the supply voltage is interrupted. Mechanical Interlocks For interlocking of two contactors. Common interlock for all 100-C contactor sizes Interlocking of different sizes possible Mechanical and electrical interlocking possible in one module by means of	<ul> <li>17.5 mm width Supply Voltage (A1/A2)</li> <li>U23 2448V DC 24240V AC. 50/60 Hz</li> </ul>	100-M, 100-C, 100-D	700-FEY2QU23	
A	For interlocking of two contactors. Common interlock for all 100-C contactor sizes	Mechanical only Without auxiliary contacts		100-MCA00	
	sizes possible Mechanical and electrical interlocking possible in one module by means of integrated auxiliary contacts 9 mm dovetail connector	Mechanical/ electrical With 2 N.C. auxiliary contacts	100-C (except 100-C40, - C90)	100-MCA02	
	Following contactor latching, is immediately de-energized auxiliary contact (65-66).	(off) by the N.C. tacts	100-C with AC coils	100-FL11⊗	

### ⊗ Voltage Suffix Code for Mechanical Latch

The cat. no. as listed is incomplete. Select a voltage suffix code from the table below to complete the cat. no. Example: 230V, 50/60 Hz: **Cat. no. 100-FL11**<sup>®</sup> becomes **cat. no. 100-FL11KF**.

	AC Control				
Code Description					
KJ	24V 50/60 Hz				
KY	48V 50/60 Hz				
KD	110V 50/60 Hz				
KF	230V 50/60 Hz				
KN	400V 50/60 Hz				
М	500V 50 Hz				

For other AC voltages visit our website or consult your local sales office.

### **Rockwell Automation**

### Control Modules (For 100-C09...C85 contactors), continued

	Description		Voltage Range	For Use With	9	Cat. No.	
	DC Interface (electronic)		Input: 12V DC Output: 110240V AC			100-JE12	
000	Interface between the DC control signal (PLC) and the AC operating mechanism of the contactor. Requires no additional surge		Input: 1830V DC Output: 110240V AC	100-C wi AC coils 110240 AC	5	100-JE	
	suppression on the relay c	oils	Input: 48V DC Output: 110240V AC			100-JE48	
	Surge Suppressors	RC Module	24…48V AC, 50/60 Hz	60/60 Hz		100-FSC48	
		AC Operating Mechanism	110280V AC, 50/60 Hz	100-C with AC coils	*	100-FSC280	
			380480V AC, 50/60 Hz	00110	*	100-FSC480	
	For limitation of coil switching transients.	Varistor	1255V AC/ 1277V DC		*	100-FSV55	
	Plug-in, coil mounted Suitable for all 100-C	Module AC/DC	56136V AC/ 78180V DC	100-C	*	100-FSV136	
	contactor sizes, 985 A RC, Varistor and Diode Versions	Operating Mechanism	137277V AC/ 181350V DC		*	100-FSV277	
			278575V AC		*	100-FSV575	
	Diode Module DC Operating Mechanism		12250V DC	100-C with DC coils	*	100-FSD250	

\* May be ordered in package quantities of 10. Add letter M to the end of the cat. no. Example: 100-FSC48M.

POWER

#### Assembly Components (For 100-C09...C85 contactors)

	Description	For Use With	PQ	Cat. No.	
	<b>Dovetail Connectors</b> For use in contactor and starter assemblies. Single Connector — 0 mm Spacing	100-C		100-S0	
	<b>Dovetail Connectors</b> For use in contactor and starter assemblies. Dual Connector — 9 mm Spacing	100-0	10	100-S9	
entration .	ECO Connecting Modules – 25 A Eco-starters mount on single DIN Rail	140M-C to 100- C09C23	*	140M-C-PEC23	
	(140M on DIN Rail) Electrical and mechanical interconnection of 140M MPCB and 100-M (with AC or DC coils) or 100-C (with AC coils) contactors	140M-D to 100- C09C23	*	140M-D-PEC23	
		140M-C to 100- C09C23		140M-C-PNC23	
	Connecting Modules – 25 A and 45 A Contactor and MPCB MUST BE mounted	140M-D to 100- C09C23		140M-D-PNC23	
	separately on (2) DIN Rails Electrical interconnection between 140M	140M-D to 100- C30C37		140M-D-PNC37	
	MPCB and 100-C contactors (with AC coils)	140M-F to 100- C30C37		140M-F-PNC37	
		140M-F to 100- C43		140M-F-PNC43	

\* May be ordered in package quantities of 20. Add letter **M** to the end of the cat. no. Example: **140M-C-PEM12M**. PQ = Package Quantity

# DeviceNet Starter Auxiliary DSA I/0 for Distributed Starters

- Includes complete connector plug set
- Removable connectors
- Slender 22.5 mm wide profile
- Screw or DIN Rail mounting
- · Rotary node address switches
- DeviceNet address settable via hardware or software — no need to adjust rotary node address switches
- DeviceLogix functionality

### Inputs from:

- Contactor Aux
- Relay
- Pushbutton
- Proximity Switch Limit Switch
- Starter
  Relay
  Signal
- Signal LampValve

Outputs to:

Contactor Coil

No. of Inputs	No. of Outputs	Cat. No.	
4 (120V AC)	2 Relay (250V rated)	100-DNY41R	
4 (24V DC)	2 Relay (250V rated)	100-DNY42R	
4 (24V DC)	2 Solid-State (24V DC)	100-DNY42S	

## **Rockwell Automation**

# Bulletin 100-C Contactors Accessories

### Star-Delta Starter Kits

Power wiring kits were designed to aid in the field assembly of open-transition star-delta and reversing starters that use Bulletin 100-C contactors. These kits include line, load (and start-point) connections.



-1	70		100
- 1	70-	PV	v∠3

	3-Phase Ra	ting (50 Hz)		Use with Cat. No. 100				
230V	380/415V	500V	690V	De	elta	Star		
	[k\	W]		1M	2M	1S	Cat. No.	
5.5	8	8	8	C09	C09	C09		
7.5	11	11	11	C12	C12	C09	170-PW23	
10	14	15	14	C16	C16	C12	170-FW23	
14	21	21	19	C23	C23	C12		
18	28	28	28	C30	C30	C16	170-PW37	
19	35	35	32	C37	C37	C23	170-PW37	
23	40	40	41	C43	C43	C30	170-PW43	
33	58	60	56	C60	C60	C37	170-PW72	
39	69	67	70	C72	C72	C43	170-20072	
47	82	82	81	C85	C85	C60	170-PW85	

### **Reversing Starter Kits**

	Description	For Use With	Cat. No.	
11.00	Reversing Power Wiring Kits For reversing connection with a solid-state or thermal overload relay	100-C09C23	105-PW23	
) <del></del>		100-C30C37	105-PW37	
111 111		100-C43	105-PW43	
		100-C6085	105-PW85	

### Marking Systems

	Description	PQ	Cat. No.	
432	Label Sheet 10 sheets with 105 self-adhesive paper labels each, 6 x 17 mm	10	100-FMS	
84	Marking Tag Sheet 10 sheets with 160 perforated paper labels each, 6 x 17 mm To be used with a transparent cover	10	100-FMP	
	Transparent Cover 100 each To be used with marking tag sheets	100	100-FMC	

PQ = Package Quantity

### Enclosures

Eliciosules		Description		0 · N	
		For Use With	Cat. No.		
	Plastic Enclosures for DOL Starters For Bulletin 100-C09C23 contactors with overload relays Bulletin 193-ED, -EE or -CT Protection class IP66 Prestampings for two pilot lights				
	Material: ABS V-0	With blue RESET push button	100- C09C23 + 193-ED, -EE, -CT	198E-A0S1	
		With green START and raised red STOP/RESET push buttons, START contact kit included.		198E-A0S4	
	Material: PC V-0	With blue RESET push button	100- C09C23 + 193-ED, -EE, -CT	198E-C0S1	
		With green START and raised red STOP/RESET push buttons, START contact kit included.		198E-C0S4	
	Pushbutton Latch For maintained contact control, enclosures with START/STOP push buttons.		198E-A0S4, 198E-C0S4	198E-PLA	
	Neutral Terminal		198E-A, 198E-C	198E-PNT	
I DI	START Contact Kit Included in the enclosure, as spare part only.		198E-A0S4, 198E-C0S4	198E-PCK	
	Pilot Lights Length of connection leads 180 mm, includes lamp, protection class IP54. *				
	Green	120V	198E-A, 198E-C, 140A-C-E	140-LG120	
		240V		140-LG240	
		400V		140-LG400	
	Red	120V		140-LR120	
		240V		140-LR240	
		400V		140-LR400	
	White	120V		140-LW120	
		240V		140-LW240	
		400V		140-LW400	

\* For protection class IP66 use 800F pilot lights, see page 3-6