

Bulletin 100S-C/104S-C — IEC Safety Contactors

- Mechanically linked N.C. auxiliary contacts
- Front-mounted auxiliary contacts
 - Gold bifurcated
 - Permanently fixed
 - Protective cover to prevent manual operation
 - Red contact housing for easy identification
 - Incorporates IEC 60947-5-1 “Mechanically Linked” symbol
- AC and DC operating coils
- SUVA Third-Party certification

Bulletin 100S-C/104S-C safety contactors provide mechanically linked positively guided contacts, required in feedback circuits of modern safety applications. The mechanically linked N.C. auxiliary contacts will not change state when a power pole welds. In addition, the gold-plated bifurcated auxiliary contacts are ideally suited for low-energy applications or feedback control circuits with multiple series-connected N.C. auxiliary contacts.

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

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 Accessories..... 2-142
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Standards Compliance

EN50205
 CSA C22.2 No. 14
 UL 508
 EN/IEC 60947-4
 IEC 60947-4-1 Annex H — Mirror
 Contacts
 IEC 60947-5-1 Annex L —
 Mechanically Linked Contacts
 Meets the material restrictions for
 European Directive
 2002/95/IEC-EU-RoHS

Certifications

SUVA Third-Party Certified
 CE Marked
 cULus Listed (File No. E3125;
 Guide NLDX, NLDX7)

Product Selection

3-Pole AC- and DC-Operated Contactors

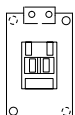
I _e [A]		Ratings for Switching AC Motors — AC-2, AC-3, AC-4										Aux. Contacts		Cat. No.**
		3-Phase kW (50 Hz)				Hp (60 Hz)								
AC-3	AC-1	230V	400V/ 415V	500V	690V	1-Phase		3-Phase				N.O.	N.C.	
						115V	230V	200V	230V	460V	575V			
9	32	3	4	4	4	1/2	1-1/2	2	2	5	7-1/2	0	5	100S-C09®05BC
												1	4	100S-C09®14BC
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	0	5	100S-C12®05BC
												1	4	100S-C12®14BC
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	0	5	100S-C16®05BC
												1	4	100S-C16®14BC
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	0	5	100S-C23®05BC
												1	4	100S-C23®14BC
30	65	10	15	15	15	2	5	7-1/2	10	20	25	0	4	100S-C30®04BC
												1	4	100S-C30®14BC
37	65	11	18.5/20	20	18.5	3	5	10	10	25	30	0	4	100S-C37®04BC
												1	4	100S-C37®14BC
43	85	13	22	25	22	3	7-1/2	10	15	30	30	0	4	100S-C43®04BC
												1	4	100S-C43®14BC
60	100	18.5	32	37	32	5	10	15	20	40	50	0	4	† 100S-C60®04BC
												1	4	† 100S-C60®14BC
72	100	22	40	45	40	5	15	20	25	50	60	0	4	† 100S-C72®04BC
												1	4	† 100S-C72®14BC
85	100	25	45	55	45	7-1/2	15	25	30	60	60	0	4	† 100S-C85®04BC
												1	4	† 100S-C85®14BC
97	130	30	55	55	55	10	15	30	30	75	75	0	4	† 100S-C97®04BC
												1	4	† 100S-C97®14BC

* For other contact configurations and full product details, please contact your local Rockwell Automation sales office or Allen-Bradley distributor.

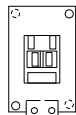
† If standard cross-stamped front-mount auxiliary contacts are required, remove the letter "B" before the letter "C" in the cat. no. Example: Cat. No. **100S-C09®05BC** becomes Cat. No. **100S-C09®05C**.

‡ Bifurcated front-mount auxiliary contacts on Cat. Nos. **100S-C60...C97** conform to mirror contact performance only.

⊗ Coil voltage code and terminal position—see page 2-137



Cat. No.
100S-C09®05C
Line Side



Cat. No.
100S-C09U®05C
Load Side

4-Pole AC- and DC-Operated Contactors

I _e [A]		Ratings for Switching AC Motors										Contact Configuration				Cat. No.*†
		AC-2, AC-3, AC-4				Hp (60 Hz)						Main Pole		Auxillary Contacts		
		3-Phase kW (50 Hz)*														
AC-3	AC-1	230V	400V/ 415V	500V	690V	1-Phase		3-Phase *								
						115V	230V	200V	230V	460V	575V					
9	32	3	4	4	4	1/2	1-1/2	2	2	5	7-1/2	4	0	0	4	100S-C09⊗404BC
												3	1	0	4	100S-C09⊗304BC
12	32	4	5.5	5.5	5.5	1/2	2	3	3	7-1/2	10	4	0	0	4	100S-C12⊗404BC
												3	1	0	4	100S-C12⊗304BC
16	32	5.5	7.5	7.5	7.5	1	3	5	5	10	15	4	0	0	4	100S-C16⊗404BC
												3	1	0	4	100S-C16⊗304BC
23	32	7.5	11	13	10	2	3	5	7-1/2	15	15	4	0	0	4	100S-C23⊗404BC
												3	1	0	4	100S-C23⊗304BC

* For other contact configurations, please contact your local Rockwell Automation sales office or Allen-Bradley distributor.

* Three-phase ratings only apply to contactors with at least three N.O. power poles.

† If standard cross-stamped front-mount auxiliary contacts are required, remove the letter "B" before the letter "C" in the cat. no. Example: Cat. No. **100S-C09⊗404BC** becomes Cat. No. **100S-C09⊗404C**.

⊗ Coil voltage code and terminal position—see page 2-137

⊗ Coil Voltage Code and Terminal Position

The Cat. No. as listed is incomplete. Select a coil voltage code from the table below to complete the Cat. No. Example: 120V, 60Hz: **Cat. No. 100S-C09⊗05BC** becomes **Cat. No. 100S-C09D05BC**.

[V]	12	24	32	36	42	48	100	100-110	110	120	127	200	200-220	208	208-240	220-230
AC, 50 Hz	R	K	V	W	X	Y	KP	—	D	P	S	KG	L	—	—	F
AC, 60 Hz	Q	J	—	V	—	X	—	KP	—	D	—	—	KG	H	L	—
AC, 50/60 Hz	—	KJ	—	—	—	KY	KP	—	KD	—	—	KG	KL‡	—	—	KL‡

‡ Not available on 100S/104S-C97 contactors.

[V]	230	230-240	240	277	347	380	380-400	400	400-415	440	480	500	550	600
AC, 50 Hz	—	VA	T	—	—	—	N	—	G	B	—	M	C	—
AC, 60 Hz	—	—	A	T	I	E	—	—	—	N	B	—	—	C
AC, 50/60 Hz	KF	—	KA	—	—	—	—	KN	—	KB	—	—	—	—

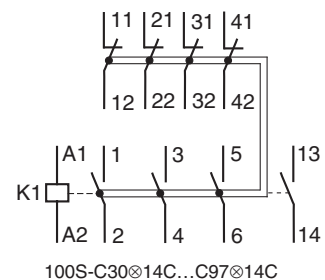
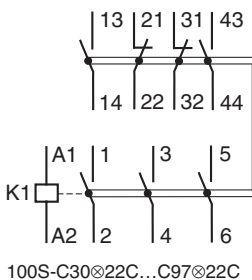
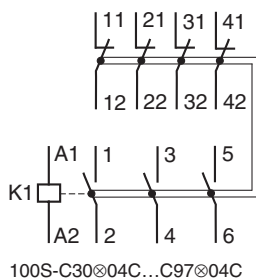
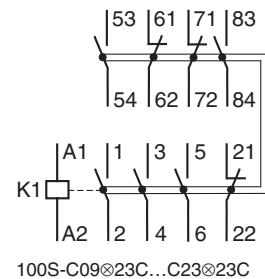
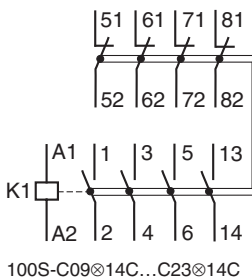
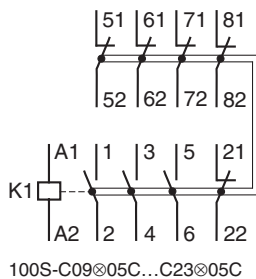
[V]		9	12	24	36	48	48-72	60	64	72	80	110	110-125	115	125	220	220-250	230	250	
100S-C09...C43	Standard	DC	ZR	ZQ	ZJ	ZW	ZY	—	ZZ	ZB	ZG	ZE	ZD	—	ZP	ZS	ZA	—	ZF	ZT
	with Integrated Diode		—	—	DJ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Electronic with Integrated Diode		—	EQ	EJ	—	—	EY	—	—	—	—	ED	—	—	—	EA	—	—	
100S-C60...C97	with Integrated Diode		DR	DQ	DJ	DW	DY	—	DZ	DB	DG	DE	DD	—	DP	DS	DA	—	DF	DT

Coil Terminal Position

- All contactors are delivered with the coil terminals located on the **line side**.
- For **load side** coil terminations, insert a “U” prior to the coil voltage code.
 Example: **Cat. No. 100S-C09UD05BC**.

Assignment of Contacts

Safety Contactors with 3 Main Contacts and Standard Front-Mount Auxiliary Contacts

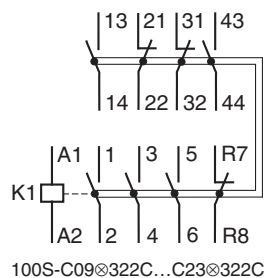
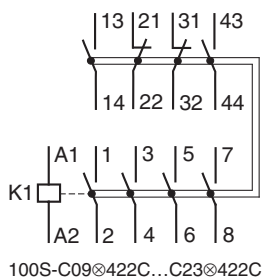
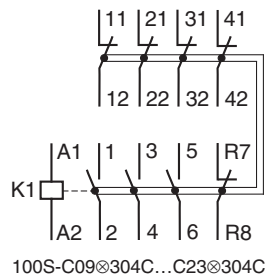
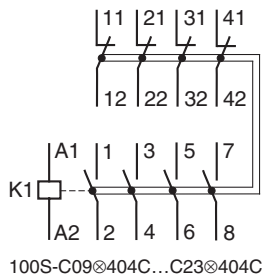


IEC Safety Contactors

Assignment of Contacts

Safety Contactors with 4 Main Contacts and Standard Front-Mount Auxiliary Contacts

2



Safety Reversing Contactors with 3 Main Contacts and Standard Front-Mount Auxiliary Contacts

