

# Product Details and Certifications

## Cross Reference RA Part Number: 100S-C23D23C C

 **Product: 100S-C23D23C**

Description: 100S-C Safety Contactor, 23A, 110V 50Hz / 120V 60Hz



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

### **CONTACTOR DATA**

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Bulletin Number	100S-C Safety Contactor
Current Rating	23A
Coil Voltage	110V 50Hz / 120V 60Hz
Number of Poles	3 Poles
Coil Termination	Line Side
Auxiliary Contact Configuration	2 N.O. / 3 N.C.
Auxiliary Contact Type	Standard Contact

### **CERTIFICATIONS AND APPROVALS**

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UL  
CSA  
IEC  
CE

Safety Contactors



Bulletin	<b>100S-C/104S-C</b>	<b>100S-D</b>
Screw Terminals	✓	Thru-hole Threaded (630...860 A)
Max. Current $I_e$	97 A	860 A
Current Rating	9...97 A	115...860 A
Features	<ul style="list-style-type: none"> <li>Positively guided/mechanically linked auxiliary contacts</li> <li>Front-mounted auxiliary contacts:                             <ul style="list-style-type: none"> <li>Permanently fixed</li> <li>Protective cover to prevent manual operation</li> <li>Red contact housing for easy identification</li> <li>Incorporates IEC 947-5-1 "Mechanically Linked" symbol</li> <li>Optional gold-plated bifurcated versions</li> </ul> </li> <li>AC and DC operating coils</li> <li>SUVA third-party certification</li> </ul>	<ul style="list-style-type: none"> <li>Mirror contact performance on auxiliary contacts, which are required in feedback circuit for modern safety applications.</li> <li>The N.C. auxiliary contacts will not change state when a power contact welds.</li> <li>SUVA third-party certification</li> <li>AC and DC operating coils</li> <li>"Mirror Contact" symbol</li> </ul>
Contacts	3 main poles with N.C. mechanically linked feedback contacts	3 main poles with N.C. mechanically linked feedback contacts
Coil Voltages	AC = 12...600V, 50/60Hz DC = 12...250V	<p><b>Conventional Coils</b>  <b>Cat. Nos. 100S-D115...D180</b>                      AC: 24...550V, 50 Hz; 24...600V, 60Hz; 100...277V, 50/60Hz                      DC: 24...250V</p> <p><b>Electronic Coils</b>  <b>Cat. Nos. 100S-D115...D300</b>                      AC: 24...500V, 50/60 Hz                      DC: 24...255V</p> <p><b>Cat. Nos. 100S-D420</b>                      AC: 42...500V 50/60 Hz                      DC: 48...255V</p> <p><b>Cat. Nos. 100S-D630...D860</b>                      AC: 100...600V, 50/60 Hz                      DC: 110...255V</p>
Optional Accessories	<ul style="list-style-type: none"> <li>Side-mount auxiliary contacts</li> <li>Surge suppressors</li> <li>Electronic timers</li> <li>Mechanical interlocks</li> </ul>	<ul style="list-style-type: none"> <li>Side-mount auxiliary contacts</li> <li>Surge suppressors</li> <li>IP20 terminal blocks</li> <li>Terminal shields</li> <li>Terminal covers</li> <li>Connecting components</li> <li>Terminal lugs</li> <li>Mechanical/electrical interlocks</li> </ul>
Standards Compliance	EN/IEC 60947-4 IEC 60947-5-1 Annex L — Mechanically Linked Contacts IEC 60947-4-1 Annex H — Mirror Contacts UL 508 CSA C22.2 No. 14 EN50205	EN/IEC 60947-4 IEC 60947-4-1, Annex H — Mirror Contacts IEC 60947-4-1/A1: 2002-09, Annex F UL 508 CSA C22.2, No. 14
Certifications	<ul style="list-style-type: none"> <li>cULus Listed (File No. E3125; Guide NLDX, NLDX7)</li> <li>SUVA Third-Party Certified</li> <li>CE Marked</li> </ul>	<ul style="list-style-type: none"> <li>cULus Listed (File No. E3125; Guide No. NLDX, NLDX7)</li> <li>SUVA Third-Party Certified</li> <li>CE Marked</li> <li>CCC (115...180 A - conventional coil; 140...420 A - electronic coil)</li> </ul>
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**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 foreasy 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**

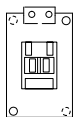
I <sub>e</sub> [A]		Ratings for Switching AC Motors — AC-2, AC-3, AC-4										Aux. Contacts		Cat. No.
		3-Phase kW (50 Hz)				Hp (60 Hz)								
		AC-3	AC-1	230V	400V/415V	500V	690V	1-Phase		3-Phase				
						115V	230V	200V	230V	460V	575V	N.O.	N.C.	
9	32	3	4	4	4	1/2	1-1/2	2	2	5	7-1/2	0	5	100S-C09@05BC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

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

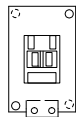
⊗ If standard cross-stamped front-mount auxiliary contacts are required, remove the letter "B" before the letter "C" in the cat. no. Example: Cat. No. **100S-C09@05BC** becomes Cat. No. **100S-C09@05C**.

‡ 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



## Catalog Explanation

➔ **100S - C 23 D 23 C**  
           a    b    c    d    e

a	Size of Contactor
b	Rated Current (A)
c	Coil Voltage and Frequency
d	Auxiliary Contacts Configuration
e	Auxiliary Contact Type <b>C = Standard Contact</b> BC = Bifurcated Contact

### ⊗ 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	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**.