

# Product Details and Certifications

Cross Reference RA Part Number: 104-C09D22 B

→ Product: **104-C09D22**

Description: Reversing Contactor, IEC, 9A, 110V 50Hz / 120V 60Hz



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

## **CONTACTOR DATA**

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Bulletin Number	104-C Reversing Contactors
Current Rating	9A
Coil Voltage	110V 50Hz / 120V 60Hz
Number of Poles	3 Poles
Coil Termination	Line Side
Auxiliary Contact Configuration	1 N.O. / 1 N.C.






## **CERTIFICATIONS AND APPROVALS**

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UL  
CSA  
IEC  
CE  
CCC

Contactors

2

					
Bulletin	100-K/104-K	100-C/104-C	100Q-C	100-D/104-D	100-G
Screw Terminals	✓	✓	✓	Thru-hole Threaded (630...860 A)	Thru-hole
Spring Terminals	✓ (5...9 A)	✓ (9...16 A)	—	—	—
Max. Current $I_e$	12 A	97 A	37 A	860 A	1200 A
Current Rating	5...12 A	9...97 A	16, 32 A	115...860 A	550...1200 A
Features	<ul style="list-style-type: none"> <li>• Mini-contactors</li> <li>• Uniform panel mounting dimensions</li> <li>• Panel mounting or mounting on 35 mm DIN Rail</li> <li>• AC or DC coil control</li> <li>• Made of environmentally friendly materials</li> </ul>	<ul style="list-style-type: none"> <li>• Panel mounting or mounting on 35 mm DIN Rail</li> <li>• AC or DC coil control</li> <li>• Reversible coil terminals (line or load side)</li> <li>• Common accessories</li> <li>• Made of environmentally friendly materials</li> </ul>	<ul style="list-style-type: none"> <li>• Panel mounting or mounting on 35 mm DIN Rail</li> <li>• AC or DC coil control</li> <li>• Reversible coil terminals (line or load side)</li> <li>• Common accessories</li> <li>• Made of environmentally friendly materials</li> </ul>	<ul style="list-style-type: none"> <li>• Panel mounting only</li> <li>• Made of environmentally friendly materials</li> <li>• AC or DC coil control (conventional or electronic)</li> <li>• Integrated PLC interface (electronic coil)</li> </ul>	<ul style="list-style-type: none"> <li>• Panel mounting</li> <li>• AC or DC coil control</li> <li>• Horizontal or vertical interlock</li> <li>• Latching</li> <li>• 4th pole</li> </ul>
Contacts	3 power poles with internal N.O. or N.C. auxiliary contact, or 4 power poles. Optional front-mounted 2- or 4-pole external auxiliary contact block.	3 power poles with internal N.O. or N.C. auxiliary contact or 4 power poles. Optional front- or side-mounted 1-, 2- or 4-pole external auxiliary contact block.	3 main poles with front-mount resistor elements. Optional side-mounted 1-, 2- or 4-pole external auxiliary contact block.	3 power poles with external N.O. and N.C. side-mounted auxiliary contact. Optional side-mounted 2-pole external auxiliary contact blocks	3 power poles with N.O. and N.C. front-mounted auxiliary contact. Optional 4th pole and auxiliary contacts
Coil Voltages	AC = 24...600V, 50/60Hz DC = 12...250V	AC = 12...600V, 50/60Hz DC = 9...250V	AC = 12...600V, 50/60Hz DC = 12...250V	<b>Conventional Coils</b> <b>Cat. Nos. 100-D115...D180</b> AC: 24...550V 50 Hz, 24...600V 60Hz, 100...277V 50/60Hz DC: 24...250V DC <b>Electronic Coils</b> <b>Cat. Nos. 100-D115...D300</b> AC: 24...500V 50/60 Hz DC: 24...255V DC <b>Cat. Nos. 100-D420</b> AC: 42...500V 50/60 Hz DC: 48...255V DC <b>Cat. Nos. 100-D630...D860</b> AC: 100...600V 50/60 Hz DC: 110...255V DC	AC = 110...480V, 50/60Hz DC = 100...440V
Optional Overload Relays	Electronic or bimetallic	Electronic or bimetallic	—	Electronic	Electronic
Optional Accessories	<ul style="list-style-type: none"> <li>• Front-mount auxiliary contacts</li> <li>• Surge suppressors</li> <li>• Electronic timers</li> <li>• Mechanical interlocks</li> </ul>	<ul style="list-style-type: none"> <li>• Front or side-mount auxiliary contacts</li> <li>• Surge suppressors</li> <li>• Electronic or pneumatic timers</li> <li>• Mechanical interlocks</li> <li>• Mechanical latches</li> </ul>	<ul style="list-style-type: none"> <li>• Side-mount auxiliary contacts</li> <li>• Surge suppressors</li> <li>• Electronic timers</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>	<ul style="list-style-type: none"> <li>• Auxiliary contact</li> <li>• 4th pole</li> <li>• Vertical interlock</li> <li>• Horizontal interlock</li> <li>• Mechanical latch</li> </ul>
Standards/Certifications	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• IEC</li> <li>• CE Marked</li> <li>• CCC</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• IEC</li> <li>• CE Marked</li> <li>• CCC</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• IEC</li> <li>• CE Marked</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• IEC</li> <li>• CE Marked</li> <li>• CCC (115...180 A - conventional coil; 140...420 A - electronic coil)</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• IEC</li> <li>• CE Marked</li> </ul>
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**Bulletin 100-C/104-C — IEC Contactors**

- Compact sizes from 4...55 kW/5...75 Hp (9...97 A)
- AC and DC coil control
- Common accessories for all contactor sizes
- Front and side mounting of auxiliary contacts
- Electronic and pneumatic timing modules
- Space-saving coil-mounted control modules
- Reversible coil terminations (line or load side)
- All devices can be attached to 35 mm DIN mounting Rail
- Environmentally friendly materials

The Bulletin 100-C/104-C IEC contactor family, along with a wide range of common accessories and Bulletin 193 solid-state overload relays, provides the most compact and flexible starter component system available.

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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**Standards Compliance**

EN/IEC 60947-4-1, 60947-5-1  
 IEC 60947 Type “2”  
 Coordination  
 CSA C22.2 No. 14  
 UL 508  
 Meets the material restrictions  
 for European Directive  
 2002/95/IEC-EU-RoHS

**Certifications**

CE Marked  
 cULus Listed (File No. E3125;  
 Guide NLDX, NLDX7)  
 CCC

**Catalog Explanation**

➔ 104 - C 09 D 22  
           a      b      c      d

a	Size of Contactor
b	Rated Current (A)
c	Coil Voltage and Frequency
d	Auxiliary Contacts Configuration

Reversing AC- and DC-Operated Contactors



Cat. No. 104-C09D22



Cat. No. 104-C30ZJ22



Cat. No. 104-C85D22

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I <sub>e</sub> [A]		Ratings for Switching AC Motors — AC-2, AC-3, AC-4										Auxiliary Contacts Installed per Contactor		Cat. No.
		3-Phase kW (50 Hz)					Hp (60 Hz)					N.O.	N.C.*	
		AC-3	AC-1	230V	400V/415V	500V	690V	1-Phase		3-Phase				
						115V	230V	200V	230V	460V	575V			
						1/2	1-1/2	2	2	5	7-1/2	1	1	
						1/2	2	3	3	7-1/2	10	1	1	
						1	3	5	5	10	15	1	1	
						2	3	5	7-1/2	15	15	1	1	
						2	5	7-1/2	10	20	25	0	1	
						3	5	10	10	25	30	1	1	
						3	7.5	10	15	30	30	0	1	
						3	7.5	10	15	30	30	1	1	
						5	10	15	20	40	50	0	1	
						5	10	15	20	40	50	1	1	
						5	15	20	25	50	60	0	1	
						5	15	20	25	50	60	1	1	
						7-1/2	15	25	30	60	60	0	1	
						7-1/2	15	25	30	60	60	1	1	
						10	15	30	30	75	75	0	1	
						10	15	30	30	75	75	1	1	

\* The N.C. auxiliary contact is supplied as part of the mechanical/electrical interlock.

⊗ 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. 100-C09⊗10 becomes Cat. No. 100-C09D10.

[M]	12	24	32	36	42	48	100	100-110	110	120	127	200	200-220	208-240	220-230	230	230-240	240	277	347	380	380-400	400	400-415	440	480	500	550	600
50 Hz	R	K	V	W	X	Y	K	<b>D</b>	P	S	KG	L	—	—	F	—	VA	T	—	—	—	N	—	G	B	—	M	C	—
60 Hz	Q	J	—	V	—	X	—	KP	—	<b>D</b>	—	KG	H	L	—	—	A	T	I	E	—	—	—	N	B	—	—	—	C
50/60 Hz	—	KJ	—	—	—	KY	KP	—	KD	—	—	KG	KL‡	—	—	KL‡	KF	—	KA	—	—	—	—	KN	—	KB	—	—	—

‡ Not available on 100/104-C90 or -C97 contactors.

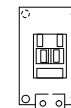
DC Voltages [V]		9	12	24	36	48	48-72	60	64	72	80	110	110-125	115	125	220	220-250	230	250
100-C09...C43	Standard	ZR	ZQ	ZJ	ZW	ZY	—	ZZ	ZB	ZG	ZE	ZD	—	ZP	ZS	ZA	—	ZF	ZT
	with Integrated Diode	—	—	DJ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Electronic with Integrated Diode	—	EQ	EJ	—	—	EY	—	—	—	—	—	ED	—	—	—	EA	—	—
100-C60...C97	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. Ordering example: **Cat. No. 100-C09UD10**.



Cat. No. 100-C09⊗10  
Line Side



Cat. No. 100-C09U⊗10  
Load Side