

IEC Miniature Contactors

Overview/Product Selection

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Bulletin 100-K/104-K — IEC Miniature Contactors

- Compact size
- Same dimensions for AC and DC
- Full-voltage non-reversing and reversing contactors
- 5, 9, and 12 A contactors rated at 690V
- IP2X finger protection
- Optional integrated surge suppressor
- Compatible with Bulletin 193-K bimetallic overload relay
- Mirror contacts per IEC 60947-4-1 and mechanically linked contacts per IEC 60947-5-1 on main unit

Your order must include: cat. no. (with coil voltage code) of the mini contactor specified and, if required, cat. no. of any accessories

Allen-Bradley Bulletin 100-K miniature contactors are designed for commercial and light industrial applications where panel space is at a premium. These miniature devices, while 45 mm wide, are shallower and have less panel depth requirements than standard IEC contactors.

The miniature contactors have been designed with flexibility in mind. They are available with AC or DC operating coils, several contact ratings, and optional 2- or 4-pole adder decks in a variety of auxiliary contact configurations.

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Standards Compliance

IEC/EN 60947-1,-4-1,-5-1,-5-4
 UL 508
 CSA 22.2. No. 14
 NF F 62-000
 Meets the material restrictions for European Directive 2002/95/IEC-EU-RoHS

Certifications

CE Marked
 cULus Listed (File No. E41850, Guide NLDX, NLDX7)
 CCC

Product Selection

3-Pole AC- and DC-Operated Contactors

Rated Operational Current I_e [A]		Ratings for switching AC motors - AC-2, AC-3, AC-4										Auxiliary Contacts		Pkg. Qty.*	Cat. No.
		3-Phase kW (50 Hz)				Hp (60 Hz)						N.O.	N.C.		
		40 °C				1-Phase		3-Phase							
AC-3	AC-1	230V	400/415V	500V	690V	115V	230V	200V	230V	460V	575V				
Screw Terminals															
5	20	1.5	2.2	2.2	2.2	1/2	1	1-1/2	1-1/2	3	3	1	0	1	100-K05⊗10
												0	1	1	100-K05⊗01
9	20	3	4	4	4	1/2	1-1/2	2	2	5	5	1	0	1	100-K09⊗10
												0	1	1	100-K09⊗01
12	20	3	5.5	5.5	5.5	3/4	2	3	3	7-1/2	7-1/2	1	0	1	100-K12⊗10
												0	1	1	100-K12⊗01
Spring Clamp Terminals															
5	10	1.5	2.2	2.2	2.2	1/3	3/4	1-1/2	1-1/2	3	3	1	0	1	100-KR05⊗10
												0	1	1	100-KR05⊗01
9	10	2.2	4	4	4	1/3	1	2	2	5	5	1	0	1	100-KR09⊗10
												0	1	1	100-KR09⊗01

* May be ordered in package quantities of 20. Add letter M to the end of the cat. no. Example: **100-K09ZJ10M**.

⊗ The Cat. No. as listed is incomplete. Select a Coil Voltage Code from page 2-125 to complete the Cat. No.

Example: 24V DC: Cat. No. **100-K05⊗10** becomes Cat. No. **100-K05ZJ10**.

4-Pole AC- and DC-Operated Contactors

Rated Operational Current I_e [A]		Ratings for switching AC motors - AC-2, AC-3										Contact Configuration, Main Pole		Pkg. Qty.*	Cat. No.
		3-Phase kW (50 Hz)				Hp (60 Hz)						N.O.	N.C.		
		40 °C				1-Phase		3-Phase							
AC-3	AC-1	230V	400/415V	500V	690V	115V	230V	200V	230V	460V	575V				
5	20	1.5	2.2	2.2	2.2	1/2	1	1-1/2	1-1/2	3	3	4	0	1	100-K05⊗400
												3	1	1	100-K05⊗300
												2	2	1	100-K05⊗200
9	20	3	4	4	4	1/2	1-1/2	2	2	5	5	4	0	1	100-K09⊗400
												3	1	1	100-K09⊗300
												2	2	1	100-K09⊗200
12	20	3	5.5	5.5	5.5	3/4	2	3	3	7-1/2	7-1/2	4	0	1	100-K12⊗400
												3	1	1	100-K12⊗300
												2	2	1	100-K12⊗200



* May be ordered in package quantities of 20. Add letter M to the end of the cat. no. Example: **100-K09ZJ400M**.

⊗ The Cat. No. as listed is incomplete. Select a Coil Voltage Code from page 2-125 to complete the Cat. No.

Example: 24V DC: Cat. No. **100-K05⊗400** becomes Cat. No. **100-K05ZJ400**.



Reversing AC- and DC-Operated Contactors

Rated Operational Current I_e [A]		Ratings for switching AC motors - AC-2, AC-3, AC-4										Auxiliary Contacts per Contactor *		Cat. No.
		3-Phase kW (50 Hz)				Hp (60 Hz)								
		40 °C		230V	400/415V	500V	690V	1-Phase		3-Phase				
AC-3	AC-1	115V	230V					200V	230V	460V	575V	N.O.	N.C.	
5	20	1.5	2.2	2.2	2.2	—	—	1-1/2	1-1/2	3	3	0	1	104-K05002
9	20	3	4	4	4	—	—	2	2	5	5	0	1	104-K09002
12	20	3	5.5	5.5	5.5	—	—	3	3	7-1/2	7-1/2	0	1	104-K12002

* Used for electrical interlocking

⊗ The Cat. No. as listed is incomplete. Select a standard Coil Voltage Code from this page to complete the Cat. No.

Example: 230V, 50/60 Hz: Cat. No. **104-K05002** becomes Cat. No. **104-K05KF02**.

Bulletin 104-K reversing contactors are factory assembled and include contactors, mechanical interlock (Cat. No. 100-KMCH) and wiring kit (Cat. No. 100-KPR) for power and control circuit (electrical interlock). Wiring schematic see 100-KPR.



⊗ Coil Voltage Code for screw type terminal versions

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-K09010 becomes **Cat. No. 100-K09D10**.

AC Voltages [V]	24	110	120	230	240	400	480	600
50 Hz	—	D	—	—	—	—	—	—
60 Hz	—	—	D	—	—	—	B	VC
50/60 Hz	KJ	—	—	KF	KA	KN	—	—

DC Voltages [V]	12	24	110	125	220	250
Standard	ZQ	ZJ	ZD	ZS	ZA	ZT
with Integrated Diode	—	DJ	—	—	—	—

⊗ Coil Voltage Code for spring clamp type terminal versions

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-K09010 becomes **Cat. No. 100-K09D10**.

AC Voltages [V]	24	110	120	230
50 Hz	—	D	—	—
60 Hz	—	—	D	—
50/60 Hz	KJ	—	—	KF

DC Voltages [V]	24	110
Standard	ZJ	ZD
with Integrated Diode	DJ	—