

# IEC Contactor Specifications

Bulletin Numbers 100/104-K, 100/104-C, 100/104S-C, 100/104-D, 100S-D, 100-G, 100Q-C

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## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.






| Resource                                                                                    | Description                                                                         |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a> | Provides general guidelines for installing a Rockwell Automation industrial system. |
| Product Certifications website, <a href="http://www.ab.com">http://www.ab.com</a>           | Provides declarations of conformity, certificates, and other certification details. |

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.



# Product Line Overview

## IEC Contactors

|                          |                                                                                                                                                                                |                                                                                                                                                                                               |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                       |                                                                                                      |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bulletin No.             | 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.<br>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.<br>Optional front- or side-mounted 1-, 2- or 4-pole external auxiliary contact block.                                                                                                             | 3 main poles with front-mount resistor elements.<br>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<br>DC = 12...250V                                                                                                                                                                                                                       | AC = 12...600V, 50/60Hz<br>DC = 9...250V                                                                                                                                                                                                                                       | AC = 12...600V, 50/60Hz<br>DC = 12...250V                                                                                                                                                                                                                                      | <b>Conventional Coils</b><br><b>Cat. Nos. 100-D115...D180</b><br>AC: 24...550V 50 Hz, 24...600V 60Hz, 100...277V 50/60Hz<br>DC: 24...250V DC<br><b>Electronic Coils</b><br><b>Cat. Nos. 100-D115...D300</b><br>AC: 24...500V 50/60 Hz<br>DC: 24...255V DC<br><b>Cat. Nos. 100-D420</b><br>AC: 42...500V 50/60 Hz<br>DC: 48...255V DC<br><b>Cat. Nos. 100-D630...D860</b><br>AC: 100...600V 50/60 Hz<br>DC: 110...255V DC | AC = 110...480V, 50/60Hz<br>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>                                                                               |