

# Vacuum Contactor and Starter Specifications

Bulletin Numbers 1102C, 1104C, 1109

Topic	Page
Specifications	2
1102C Approximate Dimensions	3...4
1104C Approximate Dimensions	5
1109 Approximate Dimensions	6...11

## 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.



	200 A	400 A	600 A
Standards	UL 508 CSA 22.2 1500V	UL 508 CSA 22.2 1500V	UL 508 CSA 22.2 1500V
<b>Power Ratings</b>			
Insul. & Operating Voltage	200...1500V	200...1500V	200...1500V
Rated Frequency	50...400 Hz	50...400 Hz	50...400 Hz
Making Current Capacity	1600 A	3200 A	4800 A
Breaking Current Capacity	1600 A	3200 A	4800 A
Dielectric Strength	6Kv - 1 Min. Interrupter GAP	6Kv - 1 Min. Interrupter GAP	6Kv - 1 Min. Interrupter GAP
Interrupting Current (Max.)	2.2 kA	4.6 kA	6 kA
Short Circuit Withstand (Max.)	10 kA symmetrical amps @ 1500V AC	18 kA symmetrical amps @ 1500V AC	30 kA symmetrical amps @ 1500V AC
Mechanical Life	1 200 000	1 000 000	750 000
Elect. Life AC3 Duty	500 000	500 000	250 000
Switching Frequency (Mechanical)	1102C, 1109 600/hr (max.) 6 s (full cycle)	600/hr (max.) 6 s (full cycle)	600/hr (max.) 6 s (full cycle)
Withstand current for 3 sec [kA]	3.2	6.0	6.5
Chop Current Max.	0.9 A	0.9 A	0.9 A
<b>Control Ratings</b>			
Coil Voltage Operation	-15% +10%	-15% +10%	-15% +10%
Inrush Power VA	1200VA	1100VA	1600VA
Sealed Power VA	12VA	12VA	14VA
Opening Time [ms]	120	160	160
Closing Time [ms]	20...40	20...40	30...40
Pick-Up Voltage	80% Cold 85% Hot	80% Cold 85% Hot	80% Cold 85% Hot
Drop-Out Voltage	70% or less	70% or less	70% or less
<b>Application Ratings</b>			
Mounting Installation	All planes	All planes	All planes
Altitude	6600 ft (2000 m)	6600 ft (2000 m)	6600 ft (2000 m)
Ambient Storage	-65...+160 °F (-54...71 °C)	-65...+160 °F (-54...71 °C)	-65...+160 °F (-54...71 °C)
Operating Temperature	-40...+135 °F (-40...57 °C)	-40...+135 °F (-40...57 °C)	-40...+135 °F (-40...57 °C)
Vibration/Shock	40 Hz: 2 G/30 G	40 Hz: 2 G/30 G	40 Hz: 2 G/30 G

Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Bulletin 1102C (200 A)

