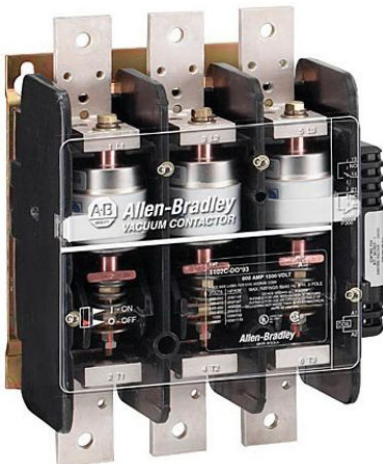


Vacuum Contactor Specifications

Bulletins 1102C and 1104C

Topic	Page
Summary of Changes	2
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1102C and 1104C Vacuum Contactors Specifications	5
Approximate Dimensions	6



Summary of Changes

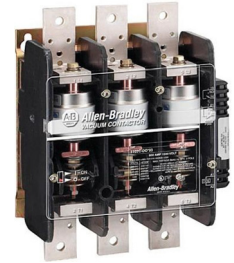
This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Added 1102C and 1104C vacuum contactor catalog number explanations.	3
Added accessory selection tables.	4
Removed Bulletin 1109 vacuum starter specifications.	—

Catalog Number Explanation

Examples that are given in this section are not intended to be used for product selection. Not all combinations produce a valid catalog number. For accurate catalog number configuration, use the ProposalWorks™ application which is available from rok.auto/systemtools.

Bulletin 1102C Non-reversing Vacuum Contactors^(a)



1102C - $\frac{B}{a}$ $\frac{O}{b}$ $\frac{D}{c}$ $\frac{93}{d}$

a	
Continuous Current Rating (A)	
Code	Description
B	200
C	400
D	600

b	
NEMA Enclosure	
Code	Type
0	Open (no enclosure)

c		
Control Voltage		
Code	Voltage	Frequency (Hz)
A	230...240V AC	60
B	460...480V AC	
D	120V AC	
N	380...415V AC	-
G	125V DC	
H	250V DC	

d	
Options	
Code	Description
93	3-pole contactor

Bulletin 1104C Reversing Vacuum Contactors^(a)



1104C - $\frac{B}{a}$ $\frac{O}{b}$ $\frac{D}{c}$

a	
Continuous Current Rating (A)	
Code	Description
B	200
C	400
D	600

b	
NEMA Enclosure	
Code	Type
0	Open (no enclosure)

c		
Control Voltage		
Code	Voltage	Frequency (Hz)
A	230...240V AC	60
D	120V AC	
G	125V DC	-

(a) Terminal lugs are not included, See [Accessories on page 4](#). Contactors are supplied with one N.O. and one N.C. auxiliary contact (A 600 rating). Additional contacts (two N.O. and two N.C.) can be added in the field. See [Accessories on page 4](#).

Accessories

Auxiliary Contacts

Description	Cat. No.
Auxiliary Contact (10 A @ 600V)	1195C-N3
Auxiliary Contact (10 mA @ 5V DC)	1195C-N4

Lug Kit (3 per kit)

Continuous Current Rating [A]	Wire Size	Cat. No.
200	2/0...250 MCM	1195C-LK1
400	(2) #6...300 MCM	1195C-LK2
600	(2) #2...600 MCM	1195C-LK3

Control Module - Side-mounted module for DC input voltage

Continuous Current Rating [A]	Input Voltage	Cat. No.
200/400/600	125V DC	1195C-N5
	250V DC	1195C-N6

Control Pak - Side-mounted module for DC coil power

Continuous Current Rating [A]	Input Voltage	Cat. No.
200	110/120V AC	1102C-CP2D
	220/240V AC	1102C-CP2A
	380/415V AC	1102C-CP2N
	440/480V AC	1102C-CP2B
400/600	110/120V AC	1102C-CP46D
	220/240V AC	1102C-CP46A
	380/415V AC	1102C-CP46N
	440/480V AC	1102C-CP46B

Coil Kit - DC coil that is mounted in the sheet metal frame assembly that attaches to the contactor mounting plate

Continuous Current Rating [A]	Input Voltage	Control Pak Voltage	Cat. No.
200	108V DC	110/120V AC	1102C-PK2D
		220/240V AC	1102C-PK2A
		380/415V AC	1102C-PK2N
		440/480V AC	1102C-PK2B
	125V DC	—	1102C-PK2G
	250V DC	—	1102C-PK2H
400	108V DC	110/120V AC	1102C-PK4D
		220/240V AC	1102C-PK4A
		380/415V AC	1102C-PK4N
		440/480V AC	1102C-PK4B
	125V DC	—	1102C-PK4G
	250V DC	—	1102C-PK4H
600	108V DC	110/120V AC	1102C-PK6D
		220/240V AC	1102C-PK6A
		380/415V AC	1102C-PK6N
		440/480V AC	1102C-PK6B
	125V DC	—	1102C-PK6G
	250V DC	—	1102C-PK6H

Vacuum Interrupter Phase Assembly Kit - Replacement for one vacuum interrupter phase

Current Rating of Interrupter [A]	Cat. No.
200 A Vacuum Interrupter Phase Assembly	1102C-VB2
400 A Vacuum Interrupter Phase Assembly	1102C-VB4
600 A Vacuum Interrupter Phase Assembly	1102C-VB6

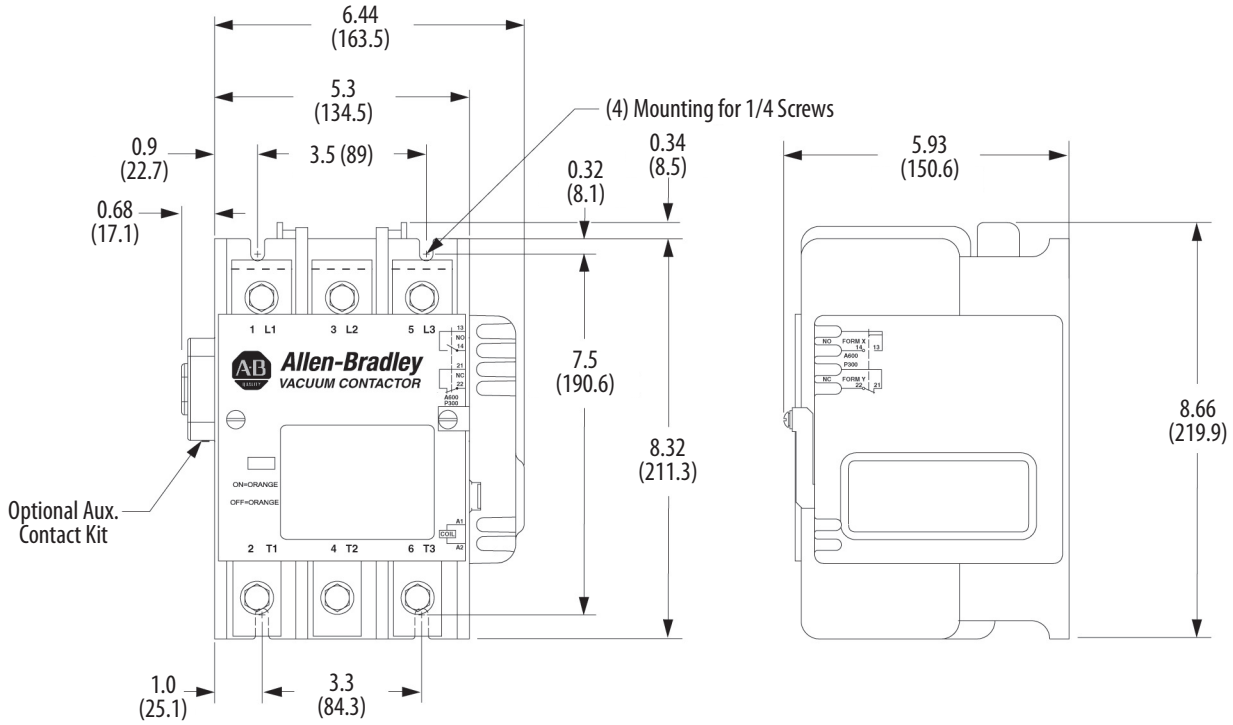
1102C and 1104C Vacuum Contactors Specifications

	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
Power Ratings			
Insulation and 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
Electrical life, AC3 duty	500,000	500,000	250,000
Switching frequency (mechanical) 1102C and 1109 1104C	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
Control Ratings			
Coil voltage operation	-15% +10%	-15% +10%	-15% +10%
Inrush power, VA	1200	1100	1600
Sealed power, VA	12	12	14
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
Application Ratings			
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

Approximate Dimensions

Bulletin 1102C - 200 A

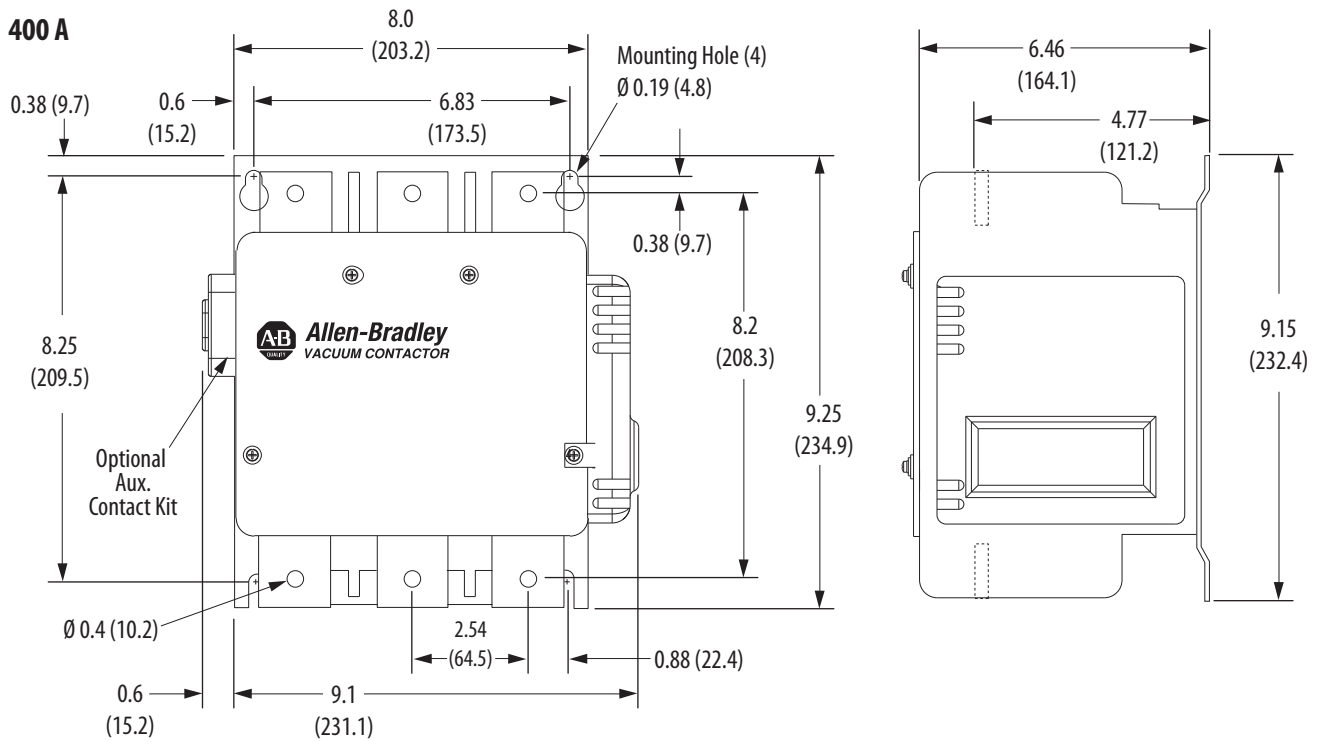
Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.



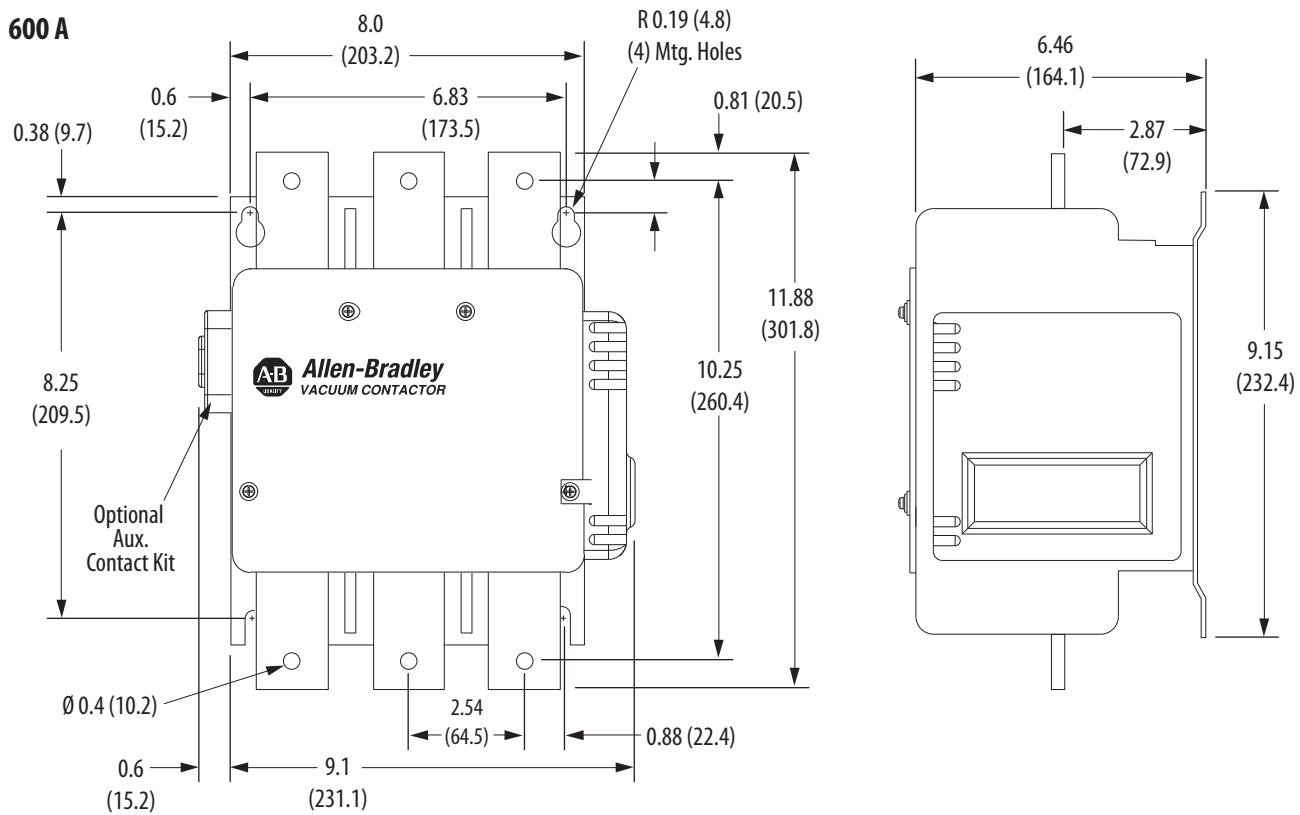
Bulletin 1102C - 400 A and 600 A

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

400 A

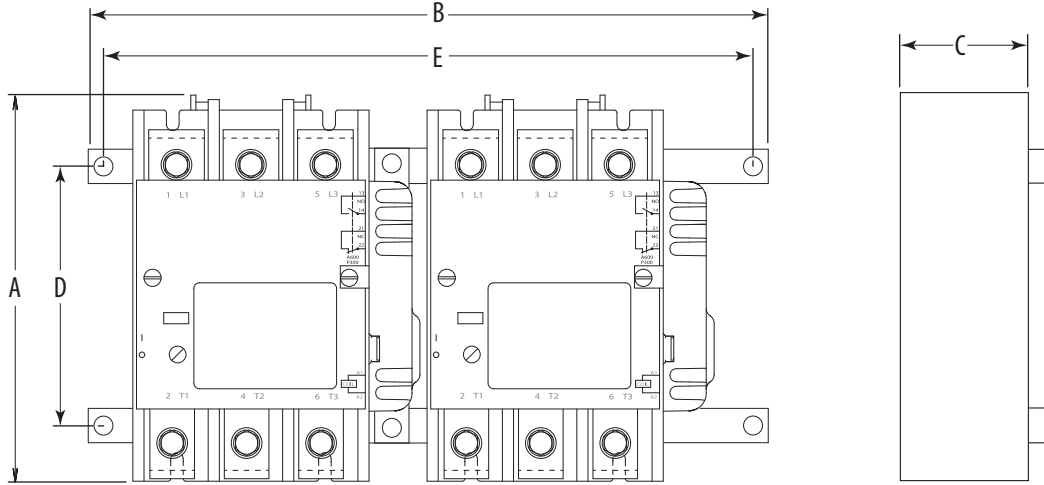


600 A



Bulletin 1104C - 200...600 A

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



Contactor Size, A	A Height	B Width	C Depth	D Mounting Height	E Mounting Width
200	8.375 (213)	14 (358)	6.5 (202)	7 (210)	13 (322)
400	9.25 (235)	21 (533)	7.1 (232)	7.85 (272)	19.5 (495)
600	12 (305)	21 (533)	7.10 (232)	10.82 (280)	19.5 (495)

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
EtherNet/IP Network Devices User Manual, ENET-UM006	Describes how to configure and use EtherNet/IP devices to communicate on the EtherNet/IP network.
Ethernet Reference Manual, ENET-RM002	Describes basic Ethernet concepts, infrastructure components, and infrastructure features.
System Security Design Guidelines Reference Manual, SECURE-RM001	Provides guidance on how to conduct security assessments, implement Rockwell Automation products in a secure system, harden the control system, manage user access, and dispose of equipment.
UL Standards Listing for Industrial Control Products, publication CMPNTS-SR002	Assists original equipment manufacturers (OEMs) with construction of panels, to help ensure that they conform to the requirements of Underwriters Laboratories.
American Standards, Configurations, and Ratings: Introduction to Motor Circuit Design, publication IC-AT001	Provides an overview of American motor circuit design based on methods that are outlined in the NEC.
Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication IC-TD002	Provides a quick reference tool for Allen-Bradley industrial automation controls and assemblies.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication SGI-1.1	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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