

Specification Checklist



Allen-Bradley

CENTERLINE 2100 Motor Control Centers

Use this checklist to help you configure your CENTERLINE® 2100 Motor Control Center. You can type in the fields provided and check the checkboxes to select your preferences. When you have completed the form, click Submit at the end of the document. If unable to submit, save the PDF to your computer and attach in an email.

Customer	User			
Prepared By	Office			
Standards				
<input type="checkbox"/> UL	<input type="checkbox"/> NEMA	<input type="checkbox"/> ICS Specification No. _____		
<input type="checkbox"/> CSA (cUL)	<input type="checkbox"/> Service entrance	<input type="checkbox"/> Other _____		
Incoming Power				
Line Volts	<input type="checkbox"/> 208V at 60 Hz	<input type="checkbox"/> 380V at 50 Hz	<input type="checkbox"/> 480V at 60 Hz	
	<input type="checkbox"/> 240V at 60 Hz	<input type="checkbox"/> 400V at 50 Hz	<input type="checkbox"/> 600V at 60 Hz	
		<input type="checkbox"/> 415V at 50 Hz	<input type="checkbox"/> Other _____	
Power	<input type="checkbox"/> 3-phase 3-wire, ungrounded	<input type="checkbox"/> 3-phase 3-wire with solidly grounded neutral	<input type="checkbox"/> 3-phase 3-wire with impedance grounded neutral	<input type="checkbox"/> 3-phase 4-wire with solidly grounded neutral
	Power system configuration	<input type="checkbox"/> Wye	<input type="checkbox"/> Delta	<input type="checkbox"/> Other _____
	Available fault current _____ kA			
Structure				
NEMA Type	<input type="checkbox"/> Type 1	<input type="checkbox"/> Type 1 with gasket	<input type="checkbox"/> Drip hood	
	<input type="checkbox"/> Type 12	<input type="checkbox"/> Type 3R non-walk-in	<input type="checkbox"/> Bottom plates	
	<input type="checkbox"/> Type 4 (stainless steel only)	<input type="checkbox"/> 12 in. pullbox	<input type="checkbox"/> Other _____	
Depth	<input type="checkbox"/> Front only	<input type="checkbox"/> 15 in. (381 mm)	<input type="checkbox"/> 20 in. (508 mm)	
	<input type="checkbox"/> Back-to-back	<input type="checkbox"/> 30 in. (762 mm)	<input type="checkbox"/> 40 in. (1016 mm)	
Options	<input type="checkbox"/> Space heater with thermostat	<input type="checkbox"/> Corner section		
	<input type="checkbox"/> 9 in. vertical wireway	<input type="checkbox"/> External mounting angles		
	<input type="checkbox"/> Master nameplate	<input type="checkbox"/> Special paint (describe) _____		
		<input type="checkbox"/> Other _____		

AB Parts

Allen-Bradley • Rockwell Software

Rockwell Automation

IntelliCENTER

IntelliCENTER® Technology (embedded network and preconfigured software)

- Integrated DeviceNet network + preconfigured software

- Integrated EtherNet/IP network + preconfigured software

 - Stratix5700™ switch mounting
 - Unit-mounted switches
 - Horizontal wireway-mounted switches

 - Ethernet cabling method
 - Homerun (direct switch-to-device)
 - Vertical wireway adapters

IntelliCENTER Technology (embedded network only)

- Integrated DeviceNet network

- Integrated EtherNet/IP network

 - Stratix5700™ switch mounting
 - Unit-mounted switches
 - Horizontal wireway-mounted switches

 - Ethernet cabling method
 - Homerun (direct switch-to-device)
 - Vertical wireway adapters

ArcShield™

- Yes
- No

SecureConnect™

- All units
- Contactor starters only
- Drives only
- Soft starters only
- Feeders only

Bus

- Power Bus Bracing (amperes rms symmetrical)
 - 42 kA (std)
 - 65 kA
 - 100 kA
 - 100 kA series coordinated
-
- Horizontal Power Bus
- Material
 - Aluminum (600 A and 800 A only)
 - Copper
- Rating:
 - 600 A
 - 800 A
 - 1200 A
 - 1600 A
 - 2000 A
 - 2500 A
 - 3000 A
- Plating
 - Tin
 - Silver (copper bus only)
-
- Vertical Power Bus
 - 300 A (600 A effective)
 - 600 A (1200 A effective)
-
- Ground Bus
- Horizontal ground bus
 - 1/4 in. x 1 in. (6.25 x 25 mm)
 - 1/4 in. x 2 in. (6.25 x 50 mm)
 - Top mounted
 - Bottom mounted
 - Top and bottom mounted
- Vertical ground bus
 - Plug-in
 - Load
 - Steel (standard)
 - Copper
 - Copper
- Plating
 - Unplated copper
 - Tin-plated copper
- IMPORTANT:** The vertical ground bus is unplated or tin-plated to match the horizontal ground bus.
-
- Neutral Bus
 - Full rated
 - Half rated
 - All sections
 - Main section only
 - Main and adjacent ___ 1, ___ 2, ___ 3 sections
-
- Termination plate only, no bus (400 A and smaller mains only)
-
- Neutral loads ___ No ___ Yes, Specify _____ Number of loads _____

Bus - continued

Neutral Load Connection Options (select one) Vertical neutral bus (requires horizontal neutral bus and 9 in. vertical wireway)

Rating: 200 A 300 A 600 A

In section: All sections Sections _____

Neutral connection plate

In horizontal wireway: Top Bottom

In section: All sections Sections _____

Options

Stab openings Manual shutters Automatic shutters Protective caps

Unit isolating barriers (nylon barriers in vertical wireway to unit openings) NO-OX-ID compound

Other _____

Incoming Line Termination

Main Lug (MLO) Located in section No. _____ Top Bottom

No. of cables per phase _____ Cable size _____ Copper Aluminum

Lugs by others Mechanical lugs Crimp compression lugs

Notes _____

Main Circuit Breaker (MCB) Located in section No. _____ Top Bottom

No. of cables per phase _____ Cable size _____

Ampere rating, frame _____ Ampere rating, trip _____

Interrupting rating at 480V < 35 kA 35...65 kA > 65 kA

Internal ground fault protection Shunt trip

Auxiliary contacts (Qty.) _____ N.O. _____ N.C. Other options _____

Main Fusible Disconnect (MFD) Located in section No. _____ Top Bottom

No. of cables per phase _____ Cable size _____

Ampere rating _____ Fuse class _____ Fuse rating _____

Auxiliary contacts - Qty. _____ N.O. _____ N.C. Other options _____

Fuses: Factory supplied and installed Supplied and installed by others

Plug-in Metering Unit

Metering Options

No. of current transformers required _____

No. of potential transformers required _____

Ammeter Ammeter switch

Voltmeter Voltmeter switch

PowerMonitor™ 5000 1426-M5 1426-M6

Communication options: DeviceNet EtherNet/IP

Withdrawable power stabs with door closed (SecureConnect)



Feeder Units

Fused Switch Fuse clip class Class CC Class J Class R Class H Class L

Dual mounted (30 A, 60 A, 100 A only) 0.5 Space factor (30 A only, Class CC or J)

Fuse rating _____ Factory supplied and installed Supplied and Installed by others

Withdrawable power stabs with door closed (SecureConnect)

Other options _____

Circuit Breaker (thermal magnetic) Interrupting rating _____ Ampere rating, frame _____ Ampere rating, trip _____

Dual mounted (125 A frame only, 100 A trip max) 0.5 Space factor (125 A or 250 A frame only, 225 A trip max)

Withdrawable power stabs with door closed (SecureConnect)

Other Options _____

Combination Contactor/Starter Units

Wiring NEMA wiring class I IS II IIS

NEMA wiring type A B-T B-D C

Contactor/Starter Types FVLC FVNR FVR TS1W TS2W

Other _____

Disconnecting Means - Fusible Fuse clip class Class CC Class J Class R Class H Class HRCII-C Class L

Fuses Factory supplied and installed Supplied and installed by others

Disconnecting Means - Circuit Breaker Motor circuit protector (magnetic/instantaneous only) Circuit breaker (thermal-magnetic/inverse-time)

Accessories _____

Overload Relays Standard melting alloy type Electronic E1 Plus™ E3™ E3 Plus™ E300™

Heater elements Factory supplied and shipped loose Supplied by others

N.O. alarm contact required Yes No

Combination Contactor/Starter Units - continued

Unit Nameplate None, screws only Cardholder Engraved acrylic Engraved phenolic

Colors: Black letters on white White letters on black White letters on red (phenolic only)

Starter Options Separate control ____ Volts Common (line voltage) control

Transformer control

Control circuit transformer (fused primary and secondary) in each unit

Standard VA Extra capacity VA

Master control power transformer (fused secondary)

Starter auxiliary contacts - Qty. ____ N.O. ____ N.C.

Pilot devices Push buttons, describe function (such as start/stop) _____

Selector switches, describe function (such as off-on, hand-off-auto) _____

Pilot lights Incandescent - Qty. _____, Colors _____

LED - Qty. _____, Colors _____

Pushtotest

Relays or timers, describe _____

Withdrawable power stabs with door closed (SecureConnect)

Others, describe _____

Other Unit / Apparatus

Lighting Transformer Describe _____

Panelboard Voltage _____ Phase _____ Main lug

IC rating _____ Wire _____ Main breaker

Quantity and pole configuration _____

Soft Starters (only Inverse Time Breakers available, fusing required) SMC™-3 SMC Flex

Describe _____

Drives (only Inverse Time Breakers available, fusing optional) PowerFlex® 523 PowerFlex 40 PowerFlex 753 PowerFlex 70

PowerFlex 525 PowerFlex 755 PowerFlex 700/700H

Programmable Controllers ControlLogix® PLC 1771 CompactLogix™

No. of slots _____ Power supply _____ Describe _____



Other Unit / Apparatus - *continued*

<input type="checkbox"/> Network Power Supply (8 A, Class 1)	<input type="checkbox"/> Separate source of 110/120V AC	<input type="checkbox"/> Fusible switch with control transformer	<input type="checkbox"/> Circuit breaker with control transformer
<hr/>			
<input type="checkbox"/> Non-redundant			
<input type="checkbox"/> Redundant (dual power modules within a unit)		<input type="checkbox"/> With or <input type="checkbox"/> Without intelligent I/O device (to monitor redundant power supply) (DeviceNet only)	
<input type="checkbox"/> Two-branch redundant power unit with the following 24V DC inputs (Ethernet only)			
<input type="checkbox"/> Two Rockwell Automation power supply units in MCC		<input type="checkbox"/> Two customer-supplied 24V DC inputs	<input type="checkbox"/> One Rockwell Automation power supply in MCC and one customer-supplied 24V DC input
<hr/>			
<input type="checkbox"/> Network access port on unit door			

<input type="checkbox"/> DeviceNet Bridge (DeviceNet only)	<input type="checkbox"/> DeviceNet to ControlNet	<input type="checkbox"/> DeviceNet to Ethernet
<hr/>		
<input type="checkbox"/> Separate source of 110/120V AC	<input type="checkbox"/> Fusible switch with control transformer	

Withdrawable power stabs with door closed (SecureConnect)

Other units, options, or modification Describe _____

Extra space for future units Describe _____

Comments / Additional Notes

To send for review, click Submit

Rockwell Automation maintains current product environmental information on its website at <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

Allen-Bradley, ArcShield, CENTERLINE, ControlLogix, CompactLogix, E1 Plus, E3, E3 Plus, E300, IntelliCENTER, PowerFlex, PowerMonitor, Rockwell Automation, Rockwell Software, SecureConnect, SMC, and Stratix 5700 are trademarks of Rockwell Automation, Inc.

Trademarks not belonging to Rockwell Automation are property of their respective companies.

Rockwell Otomasyon Ticaret A.Ş., Kar Plaza İş Merkezi E Blok Kat:6 34752 İçerenköy, İstanbul, Tel: +90 (216) 5698400

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 2100-SR003H-EN-P - August 2016

Supersedes Publication 2100-SR003G-EN-E - October 2014

Copyright © 2016 Rockwell Automation, Inc. All rights reserved. Printed in the U.S.A.