

Selection Checklist

Original Instructions



Allen-Bradley

by ROCKWELL AUTOMATION

CENTERLINE 2100 Motor Control Centers

Use this checklist to help you configure your CENTERLINE® 2100 Motor Control Center. You can type in the fields that are provided and check the checkboxes to select your preferences. For further details on each step, see the CENTERLINE 2100 Motor Control Centers Selection Guide, publication [2100-SG003](#). When you have completed the form, click Submit at the end of the document and send the form to your local solution consultant.

Customer:	User:
Prepared by:	Office:

Step 1: Review MCC Technical Specifications and Certifications

Certifications		
<input type="checkbox"/> UL	<input type="checkbox"/> NEMA	<input type="checkbox"/> ICS Specification No. _____
<input type="checkbox"/> CSA (c-UL)	<input type="checkbox"/> Service entrance	<input type="checkbox"/> Other _____

Step 2: Select Network Technology

Network Technology		
IntelliCENTER® Technology (embedded network and preconfigured software)	<input type="checkbox"/> Integrated EtherNet/IP™ network + preconfigured software	
	Stratix® 5700 switch mounting: <input type="checkbox"/> Unit-mounted switches	<input type="checkbox"/> Horizontal wireway-mounted switches
	Ethernet cabling method: <input type="checkbox"/> Homerun (direct switch-to-device)	<input type="checkbox"/> Vertical wireway adapters
	<input type="checkbox"/> Integrated DeviceNet® network + preconfigured software	
IntelliCENTER Technology (embedded network only)	<input type="checkbox"/> Integrated EtherNet/IP network	
	Stratix 5700 switch mounting: <input type="checkbox"/> Unit-mounted switches	<input type="checkbox"/> Horizontal wireway-mounted switches
	Ethernet cabling method: <input type="checkbox"/> Homerun (direct switch-to-device)	<input type="checkbox"/> Vertical wireway adapters
	<input type="checkbox"/> Integrated DeviceNet network	

Step 3: Select Structure

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 channels	
	<input type="checkbox"/> Master nameplate	<input type="checkbox"/> Special paint (describe) _____	
		<input type="checkbox"/> Other _____	
ArcShield™	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Step 4: Select Power Bus and Ground Bus System

Bus								
Power Bus Bracing (amperes rms symmetrical)	<input type="checkbox"/> 42 kA (std)	<input type="checkbox"/> 65 kA	<input type="checkbox"/> 100 kA	<input type="checkbox"/> 100 kA series coordinated				
Horizontal Power Bus	Material	<input type="checkbox"/> Aluminum (600 A and 800 A only)	<input type="checkbox"/> Copper					
	Plating	<input type="checkbox"/> Tin	<input type="checkbox"/> Silver (copper bus only)					
	Rating	<input type="checkbox"/> 600 A	<input type="checkbox"/> 800 A	<input type="checkbox"/> 1200 A	<input type="checkbox"/> 1600 A	<input type="checkbox"/> 2000 A	<input type="checkbox"/> 2500 A	<input type="checkbox"/> 3000 A
	Insulation (up to 1600 A only)	<input type="checkbox"/> Yes		<input type="checkbox"/> No				
Vertical Power Bus	<input type="checkbox"/> 300 A (600 A effective)		<input type="checkbox"/> 600 A (1200 A effective)					
Ground Bus	Horizontal ground bus	<input type="checkbox"/> 1/4 in. x 1 in. (6.25 x 25 mm)	<input type="checkbox"/> 1/4 in. x 2 in. (6.25 x 50 mm)	<input type="checkbox"/> Top mounted	<input type="checkbox"/> Bottom mounted	<input type="checkbox"/> Top and bottom mounted		
	Vertical ground bus	<input type="checkbox"/> Plug-in	<input type="checkbox"/> Load	<input type="checkbox"/> Steel (standard) Copper	<input type="checkbox"/> Copper			
	Plating	<input type="checkbox"/> Unplated copper		<input type="checkbox"/> Tin-plated copper				
IMPORTANT: The vertical ground bus is unplated or tin-plated to match the horizontal ground bus.								
Neutral Bus	<input type="checkbox"/> Full rated	<input type="checkbox"/> All sections	<input type="checkbox"/> Main and adjacent ____ 1, ____ 2, ____ 3 sections					
	<input type="checkbox"/> Half rated	<input type="checkbox"/> Main section only						
	<input type="checkbox"/> Termination plate only, no bus (400 A and smaller mains only)							
	<input type="checkbox"/> Neutral loads	<input type="checkbox"/> No	<input type="checkbox"/> Yes, Specify _____	<input type="checkbox"/> Number of loads _____				
Neutral Load Connection Options (select one)	<input type="checkbox"/> Vertical neutral bus (requires horizontal neutral bus and 9 in. vertical wireway)							
	Rating:	<input type="checkbox"/> 200 A	<input type="checkbox"/> 300 A	<input type="checkbox"/> 600 A				
	In section:	<input type="checkbox"/> All sections		<input type="checkbox"/> Sections _____				
	<input type="checkbox"/> Neutral connection plate							
	In horizontal wireway:	<input type="checkbox"/> Top		<input type="checkbox"/> Bottom				
	In section:	<input type="checkbox"/> All sections		<input type="checkbox"/> Sections _____				
Options	Stab openings:	<input type="checkbox"/> Manual shutters	<input type="checkbox"/> Automatic shutters	<input type="checkbox"/> Protective caps				
	<input type="checkbox"/> Unit isolating barriers (nylon barriers in vertical wireway to unit openings)							
	<input type="checkbox"/> Other _____							

Step 5: Select Unit Design

SecureConnect Technology

SecureConnect™

(Withdrawable power stabs with door closed)

All units

Contactor starters only

Drives only

Soft starters only

Feeders only

Incoming Line Termination

Main Lug (MLO)	Located in section No. _____	<input type="checkbox"/> Top	<input type="checkbox"/> Bottom
	No. of cables per phase _____ Cable size _____	<input type="checkbox"/> Copper	<input type="checkbox"/> Aluminum
	<input type="checkbox"/> Lugs by others	<input type="checkbox"/> Mechanical lugs	<input type="checkbox"/> Crimp compression lugs
	Notes _____		

Main Circuit Breaker (MCB)	Located in section No. _____	<input type="checkbox"/> Top	<input type="checkbox"/> Bottom
	No. of cables per phase _____	Cable size _____	
	Ampere rating, frame _____	Ampere rating, trip _____	
	Interrupting rating at 480V <input type="checkbox"/> < 35 kA	<input type="checkbox"/> 35...65 kA	<input type="checkbox"/> > 65 kA
	<input type="checkbox"/> Internal ground fault protection	<input type="checkbox"/> Shunt-trip	
<input type="checkbox"/> Auxiliary contacts - Qty. _____ N.O. _____ N.C.	<input type="checkbox"/> Other options _____		

Main Fusible Disconnect (MFD)	Located in section No. _____	<input type="checkbox"/> Top	<input type="checkbox"/> Bottom
	No. of cables per phase _____	Cable size _____	
	Ampere rating _____ Fuse class _____	Fuse rating _____	
	<input type="checkbox"/> Auxiliary contacts - Qty. _____ N.O. _____ N.C.	<input type="checkbox"/> Other options _____	
	Fuses <input type="checkbox"/> Factory supplied and installed <input type="checkbox"/> Supplied and installed by others		

Combination Contactor/Starter Units

Wiring	NEMA wiring class <input type="checkbox"/> I <input type="checkbox"/> IS <input type="checkbox"/> II <input type="checkbox"/> IIS
	NEMA wiring type <input type="checkbox"/> A <input type="checkbox"/> B-T <input type="checkbox"/> B-D

Contactor/Starter Types	<input type="checkbox"/> Full Voltage Lighting Contactor <input type="checkbox"/> Full Voltage Non-Reversing <input type="checkbox"/> Full Voltage Reversing
	<input type="checkbox"/> Other _____

Disconnecting Means - Fusible	Fuse clip class <input type="checkbox"/> Class CC <input type="checkbox"/> Class J <input type="checkbox"/> Class R <input type="checkbox"/> Class H <input type="checkbox"/> Class L
	Fuses <input type="checkbox"/> Factory supplied and installed <input type="checkbox"/> Supplied and installed by others

Disconnecting Means - Circuit Breaker	<input type="checkbox"/> Motor circuit protector (magnetic/instantaneous only) <input type="checkbox"/> Circuit breaker (thermal-magnetic/inverse-time)
	Accessories _____

Overload Relays	<input type="checkbox"/> E100™ <input type="checkbox"/> E300™
	Communication type (E300 only) <input type="checkbox"/> Ethernet <input type="checkbox"/> DeviceNet <input type="checkbox"/> None
	N.O. alarm contact required <input type="checkbox"/> Yes <input type="checkbox"/> No

Unit Nameplate	<input type="checkbox"/> None, screws only <input type="checkbox"/> Cardholder <input type="checkbox"/> Engraved acrylic lamacoid <input type="checkbox"/> Other _____
	Colors: <input type="checkbox"/> Black letters on white <input type="checkbox"/> White letters on black

Combination Contactor/Starter Units

	<input type="checkbox"/> Separate control _____ Volts	<input type="checkbox"/> Common (line voltage) control
	<input type="checkbox"/> Transformer control (120V AC)	
	<input type="checkbox"/> Control circuit transformer (fused primary and secondary) in each unit	
	<input type="checkbox"/> Standard VA <input type="checkbox"/> Extra capacity VA	
	<input type="checkbox"/> Master control power transformer (fused secondary)	
Starter Options	<input type="checkbox"/> Starter auxiliary contacts - Qty. _____ N.O. and N.C. pair	
	<input type="checkbox"/> Pilot devices	<input type="checkbox"/> Push buttons, describe function (such as start/stop) _____ <input type="checkbox"/> Selector switches, describe function (such as off-on, hand-off-auto) _____
	<input type="checkbox"/> Pilot lights	<input type="checkbox"/> LED - Qty. _____, Colors _____ <input type="checkbox"/> Push-to-Test
	<input type="checkbox"/> Relays or timers, describe _____	
	<input type="checkbox"/> Withdrawable power stabs with door closed (SecureConnect)	
	<input type="checkbox"/> Others, describe _____	

Plug-in Metering Unit

	No. of current transformers required _____		
	No. of potential transformers required _____		
Metering Options	<input type="checkbox"/> Ammeter	<input type="checkbox"/> Ammeter switch	
	<input type="checkbox"/> Voltmeter	<input type="checkbox"/> Voltmeter switch	
	<input type="checkbox"/> PowerMonitor™ 5000	Communication options: <input type="checkbox"/> DeviceNet <input type="checkbox"/> EtherNet/IP	Unit options: <input type="checkbox"/> Withdrawable power stabs with door closed (SecureConnect)

Feeder Units

	Fuse clip class	<input type="checkbox"/> Class CC	<input type="checkbox"/> Class J	<input type="checkbox"/> Class R	<input type="checkbox"/> Class H	<input type="checkbox"/> Class L
	<input type="checkbox"/> Dual-mounted (30 A, 60 A, 100 A only)	<input type="checkbox"/> 0.5 Space factor (30 A only, Class CC or J)				
Fused Switch	Fuse rating _____	<input type="checkbox"/> Factory supplied and installed		<input type="checkbox"/> Supplied and Installed by others		
	<input type="checkbox"/> Withdrawable power stabs with door closed (SecureConnect)					
	Other options _____					
Circuit Breaker (thermal magnetic)	Interrupting rating _____	Ampere rating, frame _____		Ampere rating, trip _____		
	<input type="checkbox"/> Dual-mounted (125 A frame only, 100 A trip max)	<input type="checkbox"/> 0.5 Space factor (125 A or 250 A frame only, 200 A trip max)				
	<input type="checkbox"/> Withdrawable power stabs with door closed (SecureConnect) (not available on 0.5 SF, horizontal handle, or dual-mounted units)					
	Other Options _____					

Other Unit / Apparatus			
<input type="checkbox"/> Lighting Transformer	Describe _____		
<input type="checkbox"/> Panelboard	Voltage _____	Phase _____	<input type="checkbox"/> Main lug
	IC rating _____	Wire _____	<input type="checkbox"/> Main breaker
	Quantity and pole configuration _____		
<input type="checkbox"/> Soft Starters	<input type="checkbox"/> SMC™-3	<input type="checkbox"/> SMC™ Flex	
	Describe _____		
<input type="checkbox"/> Drives	<input type="checkbox"/> PowerFlex® 523	<input type="checkbox"/> PowerFlex 70	<input type="checkbox"/> PowerFlex 753
	<input type="checkbox"/> Inverse Time Circuit Breakers (fusing optional)	<input type="checkbox"/> PowerFlex 525	<input type="checkbox"/> PowerFlex 755
	<input type="checkbox"/> Fusible Disconnect		
<input type="checkbox"/> Programmable Controllers	<input type="checkbox"/> ControlLogix®	<input type="checkbox"/> CompactLogix™	
	No. of slots _____	Power supply _____	Describe _____
<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
	<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
	<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	
	<input type="checkbox"/> Separate source of 110/120V AC	<input type="checkbox"/> Fusible switch with control transformer	
<input type="checkbox"/> Withdrawable power stabs with door closed (SecureConnect)			
<input type="checkbox"/> Other units, options, or modification	Describe _____		
<input type="checkbox"/> Extra space for future units	Describe _____		

Comments / Additional Notes

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	rok.auto/support
Knowledgebase	Access Knowledgebase articles.	rok.auto/knowledgebase
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
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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