Selection Checklist

Original Instructions

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 solutions consultant.

Customer:	User:
Prepared by:	Office:

Step 1: Review MCC Technical Specifications and Certifications

Certifications		
❒ UL	❒ NEMA	❒ ICS Specification No. _____
❒ CSA (cUL)	❒ Service entrance	❒ Other _____

Step 2: Select Network Technology

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

Step 3: Select Structure

Structure			
NEMA/UL Enclosure Type	❒ Type 1	❒ Type 1 with gasket	❒ Drip hood
	❒ Type 12	❒ Type 3R non-walk-in	❒ Bottom plates
	❒ Type 4 (stainless-steel only)	❒ 12 in. pullbox	❒ Other _____
Depth	❒ Front only	❒ 15 in. (381 mm)	❒ 20 in. (508 mm)
	❒ Back-to-back	❒ 30 in. (762 mm)	❒ 40 in. (1016 mm)
Options	❒ Space heater with thermostat	❒ Corner section	
	❒ 9 in. (228 mm) vertical wireway	❒ External mounting channels	
	❒ Master nameplate	❒ Special paint (describe) _____	
		❒ Other_____	
ArcShield™	❒ Yes	❒ No	

Step 4: Select Power Bus and Ground Bus System

Bus									
Power Bus Bracing (A rms symmetrical)	❒ 42 kA (standard)	❒ 65 kA	❒ 100 kA	❒ 100 kA series coordinated					
Horizontal Power Bus	Material	❒ Aluminum (600 A and 800 A only)		❒ Copper					
	Plating	❒ Tin	❒ Silver (copper bus only)						
	Rating	❒ 600 A	❒ 800 A	❒ 1200 A	❒ 1600 A	❒ 2000 A	❒ 2500 A	❒ 3000 A	❒ 3200 A
	Insulation (up to 1600 A only)			❒ Yes	❒ No				
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 Unit 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_____				
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)								
	❒ 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						
Incoming Line Voltage	❒ 208V	❒ 240V	❒ 380V	❒ 400V	❒ 480V	❒ 600V
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	
	❒ Molded Case CB	No. of cables per phase _____			Cable size _____	
				Ampere rating, frame _____	Ampere rating, trip _____	
		Interrupting rating at 480V		❒ < 35 kA ❒ 35...65 kA ❒ > 65 kA		
	❒ Withdrawable ACB	❒ 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		

Combination Contactor/Starter Units						
Wiring	NEMA wiring class	❒ I (mfg std diagram)	❒ IS (customer diagram)	❒ II (wiring between units, mfg)	❒ IIS (wiring between units, customer)	
	NEMA wiring type	❒ A (direct to device)	❒ B-T (power terminal blocks)	❒ B-D (power direct to device)		
Contactor/Starter Types	❒ Full Voltage Lighting Contactor		❒ Full Voltage Non-reversing		❒ Full Voltage Reversing	
	❒ Other _____					
Disconnecting Means - Fusible	Fuse clip class	❒ Class CC	❒ Class J	❒ Class R	❒ Class H	❒ 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	❒ E100™	❒ E300™				
	Communication type (E300 only)	❒ Ethernet	❒ DeviceNet	❒ Modbus	❒ PROFIBUS	❒ None
	N.O. alarm contact required		❒ Yes	❒ No		
Unit Nameplate	❒ None, screws only	❒ Cardholder	❒ Engraved acrylic lamacoid		❒ Other _____	
	Colors:	❒ Black letters on white	❒ White letters on black			

Combination Contactor/Starter Units

Starter Options

❒ Separate control ____ Volts ❒ Common (line voltage) control

❒ Transformer control (120V AC)

❒ 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. and N.C. pair

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

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

_____

❒ Pilot lights ❒ LED - Qty. _____, Colors _____

❒ Push-to-Test

❒ Relays or timers, describe _____

❒ Withdrawable power stabs with door closed (SecureConnect)

❒ Others, describe _____

Plug-in Metering Unit

Metering Options

No. of current transformers required _____

No. of potential transformers required _____

❒ Ammeter ❒ Ammeter switch

❒ Voltmeter ❒ Voltmeter switch

❒ PowerMonitor™ 5000

Communication options:
❒ DeviceNet
❒ EtherNet/IP

Unit options:
❒ 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, 200 A trip max)

❒ Withdrawable power stabs with door closed (SecureConnect)
(not available on 0.5 SF, horizontal handle, or dual-mounted units)

Other Options _____

Other Unit / Apparatus			
❒ Lighting Transformer	Describe _____		
❒ Panelboard	Voltage _____	Phase _____	❒ Main lug
	IC rating_____	Wire _____	❒ Main breaker
	Quantity and pole configuration _____		
❒ Soft Starters ❒ Inverse Time Circuit Breakers (fusing required) ❒ Fusible Disconnect	❒ SMC™-3	❒ SMC™ Flex	
	Describe _____		
❒ Drives ❒ Inverse Time Circuit Breakers (fusing optional) ❒ Fusible Disconnect	❒ PowerFlex® 523	❒ PowerFlex 753	❒ PowerFlex 755TS
	❒ PowerFlex 525	❒ PowerFlex 755	❒ PowerFlex 755TL
			❒ PowerFlex 755TS
❒ Programmable Controllers	❒ ControlLogix®	❒ CompactLogix™	
	No. of slots _____	Power supply _____	Describe _____
❒ Network Power Supply (8 A, Class 1)	❒ Separate source of 110/120V AC	❒ Fusible switch with control transformer	❒ Circuit breaker with control transformer
	❒ Non-redundant		
	❒ Redundant (dual power modules within a unit)	❒ With or ❒ Without intelligent I/O device (to monitor redundant power supply) (DeviceNet only)	
	❒ Two-branch redundant power unit with the following 24V DC inputs (Ethernet only)		
	❒ Two Rockwell Automation power supply units in MCC	❒ Two customer-supplied 24V DC inputs	❒ One Rockwell Automation power supply in MCC and one customer-supplied 24V DC input
	❒ Network access port on unit door		
❒ DeviceNet Bridge (DeviceNet only)	❒ DeviceNet to ControlNet®	❒ DeviceNet to Ethernet	
	❒ Separate source of 110/120V AC	❒ 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

Rockwell Automation Support

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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
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