



CENTERLINE® Motor Control Center IEC Specification Checklist

Check boxes and fill in blanks as required.

Customer		User							
Prepared By		Office							
Standards									
<input type="checkbox"/> IEC	<input type="checkbox"/> UL	<input type="checkbox"/> CE (European Union only)	<input type="checkbox"/> ICS Specification No. _____						
<input type="checkbox"/> NEMA		<input type="checkbox"/> CSA (cUL)	<input type="checkbox"/> Other _____						
Incoming Power									
Line Volts:	<input type="checkbox"/> 220	<input type="checkbox"/> 230	<input type="checkbox"/> 240	<input type="checkbox"/> 380	<input type="checkbox"/> 400	<input type="checkbox"/> 415	<input type="checkbox"/> 480	<input type="checkbox"/> 600	<input type="checkbox"/> Other _____
Power:	<input type="checkbox"/> 3-phase 3-wire				<input type="checkbox"/> 3-phase 4-wire				
Hz:	<input type="checkbox"/> 50 Hz				<input type="checkbox"/> 60 Hz				
Available Fault Current:	_____ kA								
Structure									
Enclosure Type:	<input type="checkbox"/> IP20 (vented - solid state equipment)	<input type="checkbox"/> IP30 (filters - solid state equipment)	<input type="checkbox"/> IP40 (std)						
	<input type="checkbox"/> IP42	<input type="checkbox"/> IP54	<input type="checkbox"/> IP65 (stainless steel)						
	<input type="checkbox"/> Other _____								
Depth:	<input type="checkbox"/> Front Only	<input type="checkbox"/> 381 mm deep (15")			<input type="checkbox"/> 508 mm deep (20")				
	<input type="checkbox"/> Back-to-Back	<input type="checkbox"/> 762 mm deep (30")			<input type="checkbox"/> 1016 mm deep (40")				
Options:	<input type="checkbox"/> Standard Vertical Wireway - 115mm (4.5")	<input type="checkbox"/> Expanded Vertical Wireway - 230mm (9")							
	<input type="checkbox"/> Space Heater & Thermostat	<input type="checkbox"/> Corner Section			<input type="checkbox"/> External Mounting Channels				
	<input type="checkbox"/> Master Nameplate	<input type="checkbox"/> Unit Isolating Barriers			<input type="checkbox"/> Special Paint - describe _____				
	<input type="checkbox"/> Bottom Plates	<input type="checkbox"/> Pull Box			<input type="checkbox"/> Other _____				
	<input type="checkbox"/> Drip Hood	<input type="checkbox"/> Cable tie bar (vertical wireway)							
Bus									
Power bus bracing (amperes rms symmetrical):	<input type="checkbox"/> 42kA (std) (I_{pk} 95 kA)			<input type="checkbox"/> 50kA (I_{pk} 110kA)		<input type="checkbox"/> 65kA (I_{pk} 145 kA)			
Power Bus Plating:	<input type="checkbox"/> Tin (std)			<input type="checkbox"/> Silver					
Horizontal Power Bus (copper):	Rating -	<input type="checkbox"/> 800A (I_{cw} 50 kA, 3s)		<input type="checkbox"/> 1200A (I_{cw} 50 kA, 3s)		<input type="checkbox"/> 1600A (I_{cw} 50 kA, 3s)			
		<input type="checkbox"/> 2000A (I_{cw} 50 kA, 3s)		<input type="checkbox"/> 2500A (I_{cw} 50 kA, 3s)		<input type="checkbox"/> 3000A (I_{cw} 50 kA, 3s)			
Vertical Power Bus (copper):	Rating -	<input type="checkbox"/> 300A (600A equivalent) I_{cw} 50 kA, 0.2s				<input type="checkbox"/> 600A (1200A equivalent) I_{cw} 50 kA, 1s			

Bus (continued)

Neutral Connections: None Distribution termination plate only
 Incoming neutral line (landing/earthing only) Half rated horizontal neutral bus
 Full rated horizontal neutral bus Number of Loads _____

Vertical Neutral Bus:
(required neutral bus and 230mm [9"] wireway) 200A (control) 300A 600A

Stab Openings: Open (IP10) Manual Shutters (IP30) Automatic Shutters (IP30)

Options: NO-OX-ID compound Other _____

Earthing

Protective Earth Bus Plating: Unplated (std) Tin

Protective Earth Bus (horizontal): 6.25 x 25mm (1/4" x 1") 6.25 x 50 mm (1/4" x 2")
 Bottom mounted Top mounted Top and bottom mounted

Unit Protective Earth Bus (vertical): Steel (std) Unplated Copper Tin plated Copper

Earthing of Motors: Top plate glanding Bottom plate glanding Horizontal protective earth bus
 Unit load - vertical copper bus (provision for earthing at unit location)

Incoming Supply Line Termination

Main Lug (MLO): Located in Section No. _____ Top Bottom
No. of cables per phase _____ Cable Size _____
 Lugs by Others Mechanical Lugs
 Crimp Compression Lugs Notes _____

Main Circuit Breaker (MCB): Type _____ Frame _____ Trip _____
No. of Cables per Phase _____ Cable Size _____
Located in Section No. _____ Top Bottom
Options - Ground Fault Shunt Trip
 Auxiliary Contacts - Qty. _____ Other _____

Main Fusible Disconnect (MFD): Ampere Size _____ Main Switch Fuse (fused) Isolating Main Disconnect (non-fused)
Located in Section No. _____ Top Bottom
No. of cables per phase _____ Cable Size _____
Fuse Type _____ Ampere Rating _____
Fuses Supplied by _____ Options _____

Incoming Metering Options: No. of current transformers required _____
No. of potential transformers required _____
 Ammeter Powermonitor II 1403-MM Powermonitor 3000:
 1404-M5
 1404-M5
 Voltmeter Digital Volt/Ammeter 1405-M610 Cutler-Hammer IQDP4130

Units

Starters:	<input type="checkbox"/> DOLC	Qty. ____	Size ____	Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> DOL	Qty. ____	Size ____	Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> DOLR	Qty. ____	Size ____	Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> Soft Start (SMC)	Qty. ____	Size ____	Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> Star Delta	Qty. ____	Size ____	Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> Multi-speed, tapped wound (1 winding)			Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> Multi-speed, tapped wound (2 separate windings)			Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> Other _____			Qty. ____	Size ____	Qty. ____	Size ____
<input type="checkbox"/> Extra 165mm (6.5") of unit height for adding devices in field							

Feeder Units (outgoing):	<input type="checkbox"/> 3-pole	Qty. ____	Size ____	Qty. ____	Size ____	Qty. ____	Size ____
	<input type="checkbox"/> 4-pole	Qty. ____	Size ____	Qty. ____	Size ____	Qty. ____	Size ____
(see Neutral Connection Options)							

Drives (VFD):	Description _____	Qty. ____	Size ____	Qty. ____	Size ____
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Programmable Controllers:	<input type="checkbox"/> SLC	<input type="checkbox"/> PLC	<input type="checkbox"/> ControlLogix
	No. of slots _____	Power Supply _____	

Distribution Panel (MCB):	Voltage _____	Phase _____	Wire _____
	<input type="checkbox"/> Main Lug	<input type="checkbox"/> Main Breaker	
	Quantity and Pole Configuration _____		

Unit Options

Protective Type: (when applicable)	<input type="checkbox"/> Knife fuse links (DIN)	<input type="checkbox"/> Cylindrical fuse links (French ferrule)
	<input type="checkbox"/> Bolted Connections (BS88)	<input type="checkbox"/> UL Class Fuses (North American Fuse Type)
	Fuses Supplied by _____	
Other Options _____		

Circuit Breakers:	<input type="checkbox"/> Adjustable magnetic - std (HMCP)	<input type="checkbox"/> Thermal magnetic
	Accessories _____	

Overload Relays:	<input type="checkbox"/> Solid-State	<input type="checkbox"/> Electronic with DeviceNet
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Unit Nameplates:	<input type="checkbox"/> Cardholder	<input type="checkbox"/> Engraved Phenolic	<input type="checkbox"/> Other _____
	Color Scheme <input type="checkbox"/> Black Letters on White	<input type="checkbox"/> White Letters on Black	<input type="checkbox"/> White Letters on Red (phenolic only)

Unit Options

Separate Control ____ Volts (External Master Transformer)

Common Control:

Line Voltage

Line to Neutral

Transformer Control:

Master Control Circuit Transformer (located in MCC)

Control Circuit Transformer (located within each unit):

Standard VA

Extra Capacity VA

Primary Fusing

120 VAC (std 60Hz)

230 VAC (std 50Hz)

Other _____

Control Circuit:

Control Circuit Protection: MCB Fuse (cylindrical fuse link, 10 x 38mm) Fuse, other _____

Starter Auxiliary Contacts: Normally open - quantity _____ Normally closed - quantity _____

Pilot Devices: 800E Pushbutton

Selector Switch

Starter Options:

Pilot lights - Qty. _____, Color(s) _____

Transformer Type

Push-to-test

Other

Relays or Timers, Describe _____

Other _____

Other Units, Options or Modifications: Describe _____

Extra Space for Future Units: Describe _____

Wire Color: Power _____ Control _____ Neutral _____

Comments / Additional Notes:

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