

Global MCC solutions to meet your application needs

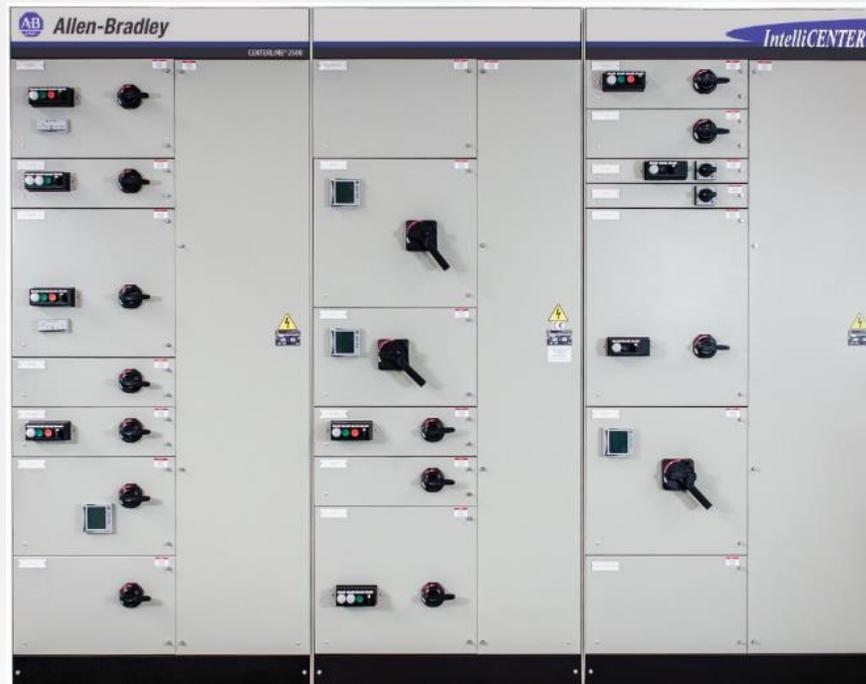
NEMA CENTERLINE 2100

480...600V



IEC CENTERLINE 2500

380...690V



CENTERLINE 1500

2400...7200V



CENTERLINE MCC Design Strategy

Globally consistent IEC and NEMA MCC solutions to meet your regional manufacturing needs.

Proven CENTERLINE bus design

- Improved heat dissipation
- Easier installation and maintenance
- Increased current carrying capacity
- Lower operating cost

Intelligent motor control components

- Drives, soft starters, electronic overload relays

IntelliCENTER[®] / Integrated Architecture[®] platform

- Enhances the intelligence of your MCC using built-in EtherNet/IP to capture information used for predictive maintenance, process monitoring and advanced diagnostics

Safety

- Provides enhanced safety features as part of the standard offering

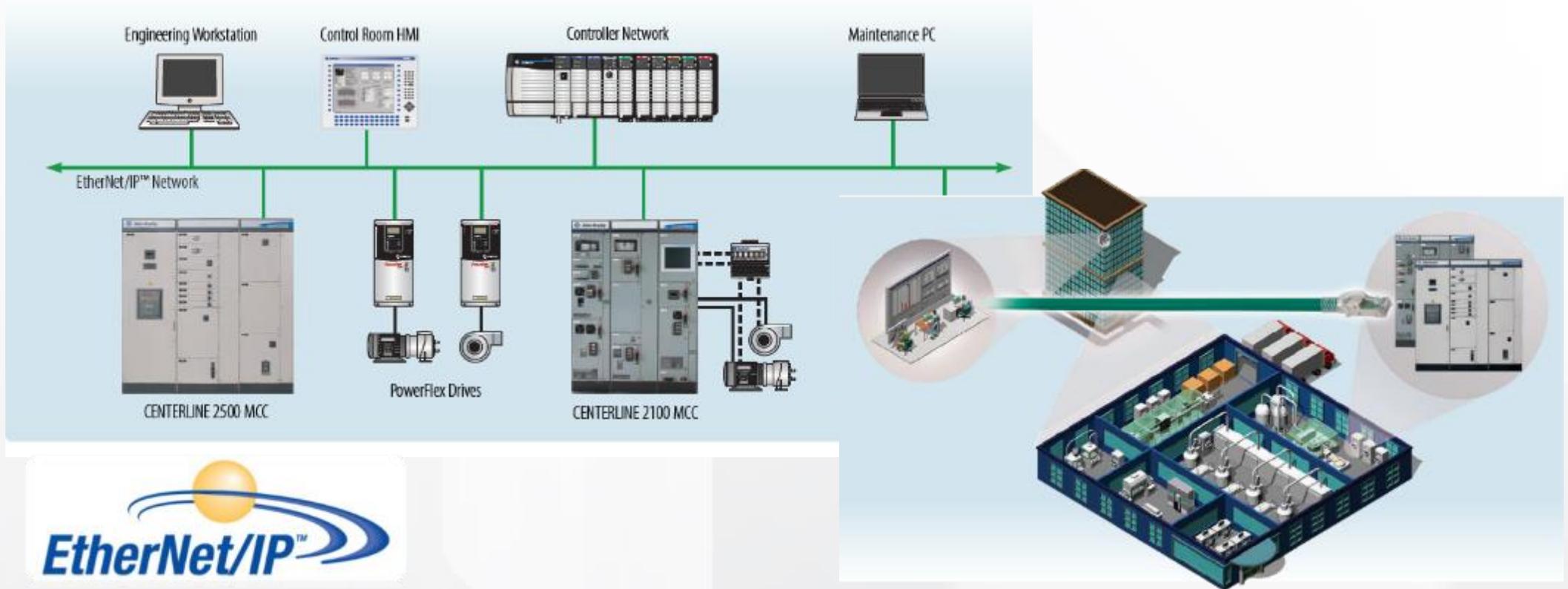


CENTERLINE 2500 IEC MCC



CENTERLINE 2100 NEMA MCC

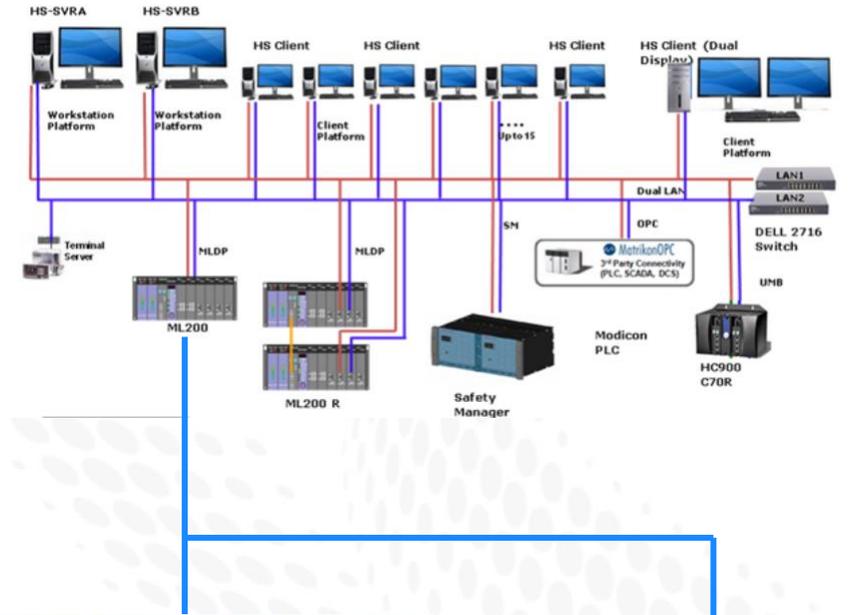
IntelliCENTER Technology



- A single network for all automation and process control equipment
- Seamlessly linked to the front office for increased access to information
- Common package for both CENTERLINE 2100 NEMA and CENTERLINE 2500 IEC MCCs

Modbus TCP/IP within LVMCC

- ✔ Solution includes premium drives, soft starters, and now fixed speed starters for both CENTERLINE 2100 and 2500 offerings
- ✔ Aligns with the needs of customers within key industries such as oil and gas and other heavy industries
- ✔ Reduces hardware costs required to integrate an LVMCC into a third-party PLC or DCS



Powerful Diagnostic Tools with IntelliCENTER Software

IntelliCENTER Software provides intuitive tools that are available anywhere, anytime

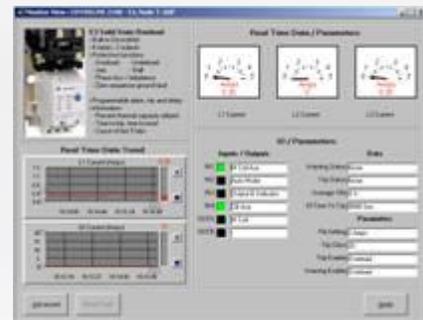
Identifies potential faults

- Crucial feedback from your motors helps minimize downtime
- Recording process data allows comparison over time and verifies consistent performance

Facilitates quick repair with direct access to critical component documentation



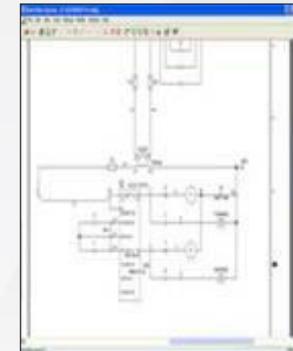
Elevation View
*Quick status overview of
your MCC*



Monitor View
*Detailed unit status
information and real time
trending*



**Maintenance
Information**
Manuals and drawings



Engineering Drawings
*Created specifically for your
MCC*



Allen-Bradley

by ROCKWELL AUTOMATION



Air Circuit Breakers



Molded Case Circuit Breakers



Motor Protection Circuit Breakers



Disconnect Switches



Contactors



Electronic Overload Relays



Soft Starters



Variable Frequency Drives



Programmable Automation Controllers

ArcShield™ Options

CENTERLINE 2100 with ArcShield		
Arc Resistant Rating	Device Limited	Duration Limited (100 ms)
Rated Voltage	Up to 600V	Up to 480V
Available Fault Current	Up to 65 kA	Up to 65 kA
Horizontal Bus Current Rating	600... 1200 A	600... 3000 A
*Top-plate Pressure Relief System (Requires 12" minimum clearance above MCC)	Not Required	Required
Vertical Wireway Baffle	Not Required	Required
Arc Containment Latches	2 Latches/Door	All Latches
Unit Support Pans	Bolted	Bolted
Vented Units Allowed	Yes (Arc Resistant Baffles)	No
Door Mounted Devices Allowed (Control stations, HIMs, viewing windows, etc.)	Yes	Yes

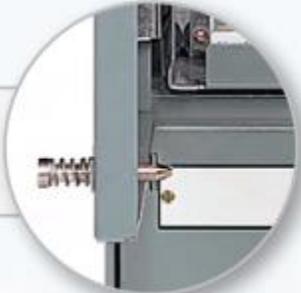
** Pressure relief system*



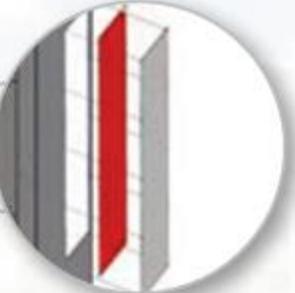
Horizontal ground bus at top and/or bottom



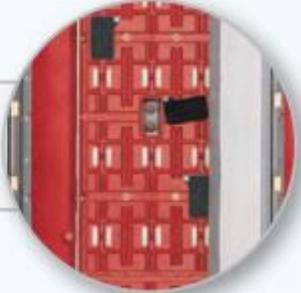
Arc-resistant latches on all doors



Reinforced back plates and end plates



Automatic shutters



ArcShield – Device Limited and 100ms Arc Duration Limited Labels

Device Limited Rating Label

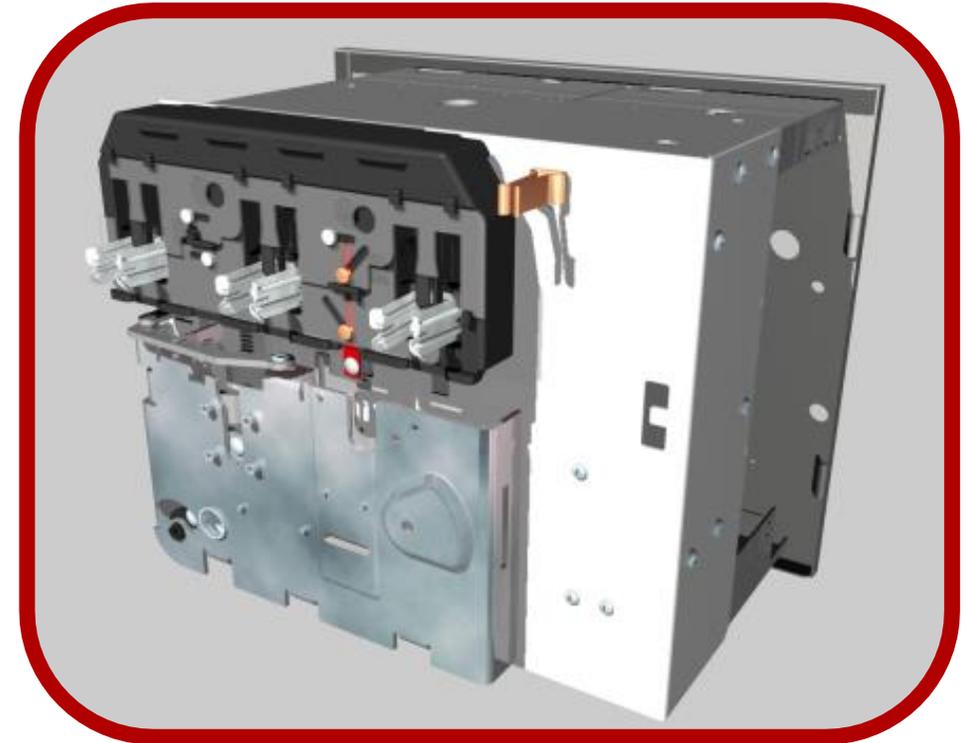
<p>ARC RESISTANT EQUIPMENT PER IEEE C37.20.7 2007</p> <p>ACCESSIBILITY: TYPE 2 ARC SHORT CIRCUIT CURRENT: ≤ 65 kA ARC DURATION: DEVICE LIMITED PROTECTIVE DEVICE: <u>UL LISTED FUSES</u> CLASS L – ANY FUSE ≤ 1200 A CLASS R – ANY FUSE ≤ 600 A CLASS J – ANY FUSE ≤ 600 A <u>UL LISTED MOLDED CASE CIRCUIT BREAKERS</u> ALLEN-BRADLEY – BULLETIN 140G, FRAME G, H, J, K, M, or N ALLEN-BRADLEY – BULLETIN 140U, FRAME I, JD, or K CUTLER-HAMMER – SERIES C, FRAME F, J, K, L, M, or N SQUARE D - POWERPACT FRAME M (480V AC ONLY)</p> <p>NOTE: 140G-N MUST HAVE INSTANTANEOUS TRIP FUNCTION ON AND SET NO HIGHER THAN 12,000A</p>
<p>⚠ WARNING</p>
<p>ARC FLASH HAZARD</p> <p>THE ARC CONTAINMENT CAPABILITY OF THE MOTOR CONTROL CENTER IS DEPENDENT UPON THE MAIN PROTECTIVE DEVICE. PROTECT ONLY WITH UL LISTED PROTECTIVE DEVICE SPECIFIED ABOVE.</p> <p>DOORS AND COVERS MUST BE PROPERLY CLOSED, LATCHED, AND SECURED. EQUIPMENT MUST BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. REFER TO PUBLICATION 2100-IN012.</p> <p>EQUIPMENT WILL NOT FUNCTION AS ARC RESISTANT IF ABOVE GUIDELINES ARE NOT FOLLOWED.</p> <p>FAILURE TO FOLLOW THESE GUIDELINES COULD RESULT IN SEVERE INJURY OR DEATH.</p> <p>PN-240698</p>

100 ms Arc Duration Label

<p>ARC RESISTANT EQUIPMENT PER IEEE C37.20.7-2007</p> <p>ACCESSIBILITY: TYPE 2 ARC SHORT CIRCUIT CURRENT: ≤ 65 kA ARC DURATION: ≤ 100 ms OPERATIONAL VOLTAGE: ≤ 480 V</p>
<p>⚠ WARNING</p>
<p>ARC FLASH HAZARD</p> <p>DOORS AND COVERS MUST BE PROPERLY CLOSED, LATCHED, AND SECURED.</p> <p>EQUIPMENT MUST BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. REFER TO PUBLICATION 2100-IN012.</p> <p>ONLY INSTALL ArcShield 100ms / 480V / 65kA RATED UNITS IN THIS STRUCTURE.</p> <p>EQUIPMENT WILL NOT FUNCTION AS ARC RESISTANT IF ABOVE GUIDELINES ARE NOT FOLLOWED.</p> <p>FAILURE TO FOLLOW THESE GUIDELINES COULD RESULT IN SEVERE INJURY OR DEATH.</p> <p>41006-402-01 (1)</p>

SecureConnect™ Overview

- Personnel safety feature that allows operators to disconnect power from a MCC plug-in unit without opening the enclosure door or being in the arc flash boundary¹
- Address the growing concern of working inside the arc flash boundary on live equipment
- Proactively address known hazards identified by major safety organizations and standards
 - NEC / NFPA 70
 - NFPA 70E
 - IEEE 1584
 - IEEE C37.20.7



¹ Use of safety features varies depending on MCC design

SecureConnect Remote Operator System

Previously, the SecureConnect operation could only be accomplished by using a manual 1/4" Hex Driver and Socket Wrench.

Today, the new SecureConnect Remote Operator allows remote operation of the SecureConnect unit further strengthening *Personnel Safety.*



CENTERLINE 2100 Safety Portfolio

