



MVMCC-AR™

POWELL E2-AR™ ARC RESISTANT MEDIUM VOLTAGE MOTOR CONTROL CENTER



OVERVIEW

Powell Medium Voltage Motor Control always has been an innovative leader in the industry. Now Powell offers an E2-AR **ARC RESISTANT** motor control for enhanced safety throughout your system. Powell combines the latest vacuum contactor design and starter components to provide the maximum in voltage rating, current rating, and interrupting rating with uniquely matched relay protection and control circuitry from virtually any manufacturer. This allows the user to tailor the equipment to meet the exact application requirement and relay preferences.

SAFETY BY DESIGN

Powell designs the **ARC RESISTANT** Motor Control Center to exceed control standards and include:

- Barriers between contactor compartment and horizontal main bus
- Both main bus and ground bus are supported and braced to 50kA switchgear standards
- Higher main bus ampacity to 4000 Amperes
- Epoxy insulated bus bars with vinyl joint cover boots

The arc resistant design incorporates a plenum at the top of the gear to direct any gas or debris in case of a fault. Powell has also made everything front accessible for greater operator convenience.

IEEE Type 2 Arc Resistant Construction

400A and 800A Vacuum Contactors

Front or Rear Accessible Design

Fix-Mounted Isolation Switch and Starter

FVNR, FVR, FVC, RVAT, and SSRV Configurations Available

2300, 4160, 7200 Voltage Ratings



Medium Voltage Motor Control Arc Resistant

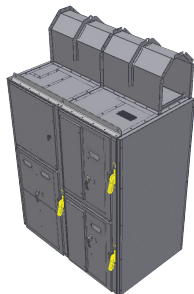
Ratings					Dimensions		
Design	AR Rating	Maximum Voltage (kV)	Continuous Current (Amperes)	Internal Arcing Short Circuit Current (kA)	Width (inches)	Height (inches)	Depth (inches)
One-High	IEEE Type 2	7.2	400	50	36	92	50
Two-High	IEEE Type 2	7.2	360/360	50	36	92	50
One-High	IEEE Type 2	7.2	720	50	36	92	50

NOTE: UL Ratings Pending

CONFIGURATIONS

MVMCC-AR™ comes in the following configurations:

- 1 High - 400A contactor
- 2 High - 400A contactor
- 1 High - 800A contactor
- Main Bus 1200 - 4000 Amperes



CODES & STANDARDS

- *IEEE C37.20.7* - Guide for Testing Medium Voltage Metal-Enclosed Switchgear for Internal Arcing Faults
- *ICS 3* - Industrial Control & Systems: Medium Voltage Controllers Rated 2001 to 7200 Volts AC
- *EEMAC G14-1* - Procedure for testing the Resistance of Metal-Enclosed and Metal-Clad Switchgear Under Conditions of Arcing Due to an Internal Fault
- *IEC 62271-200* - AC Metal-Enclosed Switchgear & Controlgear for Rated Voltages Above 1kV and Up To and Including 52kV
- *UL 347* - High Voltage Industrial Control Equipment