ABB has released an upgraded version of its ANSI SafeGear® MCC. In this new release, safety is our number one priority. With features such as 50 kA@ 0.5 second arc withstand time, Metal-Clad type construction, arc resistance accessibility type 2B and one or two-high configuration, personnel around this MCC can be confident of working continuously with exceptional safety features.

**Product highlights**
- Fully compliant to CSA & UL 347 5th edition for Motor Control Centers
- Meets the IEEE C37.20.2 for metal-clad switchgear construction
- Type 2B arc resistance accessibility as per IEEE C37.20.7
- One and two-high construction
- No transition section required for coupling to ABB SafeGear® Switchgear
- Dead front that avoids access to live parts
- Automatic secondary disconnects
- Closed door PT racking
- SmartRack™ remote racking system for contactors as well as PTs
- Optional ground studs for safety during maintenance
- Optional infrared windows available for temperature monitoring
- Optional surge arresters for lightning protection
- Up to two 720A contactors per frame

**Galvanized steel construction**
The SafeGear MCC is built using galvanized steel to increase rust protection and scratch and corrosion resistance. Galvanized steel is also used inside the low and medium voltage compartments to increase illumination properties providing a better instrument viewing.

**MCC accessories**
- Racking Crank
- Test Cabinet
- Test Jumper
- SmartRack™ remote racking device
- Lift Truck
- Extension ramp

**MCC options**
- Potential Transformers
- Infrared windows for temperature monitoring
- Arc-flash protection relay (REA)
- Thermal sensors
- Ground CTs
- Surge arresters
- Ground studs
- Multipoint Latch Doors

**Available configurations**
SafeGear MCC is available in a compact footprint in two-high configuration. When coupling the SafeGear MCC to Switchgear no transition section is required. Each MCC frame is 30 inches wide, 68 inches deep and 95 inches high regardless of one or two high options. Each frame includes a separate isolated low voltage compartment that can be used for relays, meters and other instruments. All frames use grounded metal barriers to protect personnel from exposure to high voltage.
Contactor

ABB uses vacuum technology for its medium voltage contactor. The MV contactor used in the SafeGear MCC has been fully tested to be in compliance of the mechanical operations required by UL.

The medium voltage controllers are general purpose, Class E2, designed and built in accordance with the latest applicable provisions of UL 347 fifth edition, CSA-C22.2 No. 253 and the National Electrical Code.

Instrument transformers

Current transformers – The SafeGear MCC uses ABB CTs type SAB or SCG depending on the application. A maximum of 3 CTs (SAB type) per phase in standard accuracy can be applied. Additionally, zero sequence protection can be provided using a BYZ current transformer.

Potential transformers – ABB PTs are used for voltage measurement, generally using VIY-60 depending on the application.

Protection and control

The relay models REM601, REM615 and REM620 are dedicated motor IEDs (Intelligent Electronic Device) designed for protection, control, measurement and supervision of utility substations and industrial power systems. These are members of ABB’s Relion® product family. The 601 provides the most effective protection & control for small to high power motors. The 615 & 620 provide advanced features and extreme flexibility. Furthermore, they are characterized by compact and withdrawable design.

Applications of SafeGear MCC

- Industry
- Infrastructure
- Utilities and power plants
- Transportation
- O&G

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More product information:


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