Nearly twenty years of design, testing and research, with ANSI SaferGear® and MCC developments, establish ABB as the industry leader in arc-resistant motor control centers with metal-clad construction accessibility 2B MCC equipment.

Ideally suited for medium voltage heavy duty applications, SafeGear® MCC offers optimal control and protection for your motors and transformers.

Designed for the highest degree of safety and reliability industrial requirements, SafeGear® MCC is suitable to meet most market needs.

It is equipped with mechanical interlocks between the removable contactor truck and the front door to increase operation and maintenance safety. The withdrawable contactor design eliminates the need for an isolation switch. Due to the reduced number of parts and simple design, handling, maintenance and safety are improved.

A segregated LV instrument compartment with Type 2B arc-resistant construction provides a high level of operator safety.

For optimal flexibility, SafeGear® MCC is designed to be used in combination with SafeGear® switchgear.

**Arc-resistant design**

SafeGear® arc-resistant Motor Control Center is available in Accessibility Type 2B, in accordance with IEEE C37.20.7. This differentiates ABB from competitors who typically test to Type 2 arc-resistant construction.

**Up to two contactors per frame**

SafeGear MCC construction allows for installation of up to two contactors per frame, up to 720 A, optimizing the quantity of frames and resulting in cost savings of more than 15%, in addition to the benefit of footprint reduction.

**No additional transition section**

SafeGear MCC does not require an additional transition section to be coupled to SafeGear, reducing initial investment and required space in the electrical room.

**Metal-Clad construction**

SafeGear MCC is in compliance with the international standard IEEE C37.20.2 (Metal-clad construction) improving safety for users.
Contactor
ABB uses vacuum technology for its medium voltage contactor. The MV contactor used in 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 sixth edition, CSA-C22.2 No. 253 and the National Electrical Code.

Instrument transformers
Current transformers – SafeGear MCC uses ABB CTs type SAB or SCG, depending on the application. A maximum of three 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
Relion® 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.

The 601 provides the most effective protection and control for small to high power motors. The 615 and 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
- Oil & Gas

Your sales contact:
www.abb.com/contacts

More product information:
www.abb.com/mediumvoltage

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