



MODUL SYSTEM

Motor-Control-Center (MCC)

Verification of Design (Type tested) according to IEC 61439 & IEC 61641

The low voltage distribution MODUL K SYSTEM in either modular fixed mounted, semi-withdrawable, withdrawable or Motor-Control-Center (MCC) design is used to provide safe energy distribution in power plants, heavy industries, chemical plants and in building facilities. The system can also be used for power factor correction.









- Design verified, type tested, arc fault tested and seismic tested low voltage system up to 6300 A
- Factory assembled switchgear system in modular construction
- All types extendable by standardized dimensions
- Sturdy, high end design for industrial use with minimized types of system parts, for maximum liability, stainless chrome steel frame as standard
- Flexibility for special custom-made solutions
- Verification of design and type test
- IEC 61439-2
 - DIN EN 61439-1/2 (VDE 0660 part 600 1/2)
 - DIN EN 60439-1 (VDE 0660 part 500)
- Internal arc fault withstand test acc. IEC/TR 61641 resp. DIN EN 60439-1, suppl. 2
- Seismic withstand test (earth quake test)
 - IEC 60068-2-6/-3-3 /- 2-59 • TA34-PB-295/12-01
- Internal separation up to Form 4b
 - Circuit breaker cubicle in modular construction
 - Outgoing cubicle for fixed mounted components (e.g. FC)
 - MCC cubicles for fully withdrawable feeder modules
- Additional safety features as option
 - Fast arc fault distinguisher Arc-K-System (within1,2ms)
 - Smoke detectors, Surge arresters
 - Main busbar insulation
- Mechanical interlocked drawer operation with closed door, patented fully encapsulated contact mechanism

Technical data

1000V
Up to 690V AC
50Hz/60Hz
1250A up to 3200A (busbar top), up to 6300A (busbar rear)
Min. 1000A
60kA up to 120kA 1 sec
80kA 1 sec
Up to 265kA 0,1 sec
176kA 0,1 sec
65kA/0,3s/725V
Fully GRP phase encapsulated
Up to 630A, patented safe contact mechanism
Up to 6300A
IP 3X/IP 4X IEC 529/DIN 40050
Form 2B up to Form 4b IEC
Min5° C, Max. 40° C, 35° C 24 hours time averaged
3
Height: 2000 or 2250 mm
Depth: 600, 800 mm (single fr.) 1200, 1600 (double fr.)
Width: 450, 600, 800, 1000, 1200 mm
Frame: Steel (Zinc or stainless)
Internal sheets: Galvalumed (alu zinc coated)
Walls, doors: Epoxy powder coated