

Low Voltage Switchgear

MODUL-K-MCC-SYSTEM

MODUL-K-MCC – Technical Data		
Standards	Type-tested low-voltage switchgear and controlgear assemblies Protection against electric shock Testing of behaviour in case of internal faults (accidental arcs) Seismic safety	DIN EN (IEC) 61439-2, DIN VDE 0660-600-1+2 DIN VDE 50274, DIN VDE 0660-514 IEC 61641, DIN VDE 0660-500 sh. 2 IEC 60068-2-6/-3-3 /- 2-59, TA34-PB-295/12-01
Air-gap and leakage paths	Rated impulse withstand voltage (U_{imp}) Overvoltage category Pollution severity	12 kV III 3
Rated insulation voltage (U_i)		1000 V
Rated operational voltage (U_e)		690 V
Busbars E-CU-F30	Main busbars (horizontal) Surface Rated peak withstand current Rated short time current Vertical busbars (MCC) Rated peak withstand current Rated short time current	1250 A bis 3200 A (at the top), up to 6300 A (in the rear) Bare (optional insulation) I_{pk} up to 265 kA, 0,1 sec I_{cw} up to 120 kA, 1 sec 1000 A, internal arc-free plug-in bus, insulation-encapsulated I_{pk} up to 176 kA, 0,1 sec I_{cw} up to 80 kA, 1 sec
Main electrical equipment	ACB MCCB NH fuse switch disconnecter Motor relay	630 A to 6300 A up to 630 A (fixed mounted / withdrawable) Up to 630 A, mounting size 00 / 1 / 2 / 3 Therm. / electron. / bus controlled
Motor starters	Coordination Type 1 or 2 (IEC 60947-4-1)	According to typicals
Internal separation	Form 2b to form 4b	IEC 61439-1
Metal parts	Frame Doors, side walls Internal sheets	Chrome steel (stainless) Powder-coated steel Galvalumed (alu zink coated)
Degree of protection	IEC 60529 / DIN 40050	IP 31 (higher ratings available if required)
Operating conditions	DIN EN 60947-1 / 61439-1	Min -5°C, Max +45°C, 35°C 24h average
Cubicle dimensions	Height Width Depth	2000 / 2250 mm 450 / 600 / 800 / 1000 / 1200 mm 600 / 800 mm
All mentioned ratings above are nominal ratings and catalogue values. Derating has to be considered depending on specific built-in status and operating conditions (e.g. temperature, IP protection etc.)		