

MEDIUM VOLTAGE PRODUCTS

UniGear MCC

Air-insulated motor control center.



UniGear MCC as an air-insulated medium-voltage motor control center is designed specifically for motor, transformer and capacitor bank switching.

UniGear MCC is the result of many years of experience with the design, manufacturing and application of vacuum contactors across the entire range of industrial and utility installations.

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One of the main characteristics of the UniGear MCC is the automatic earthing switch operated by the movement of the vacuum contactor.

Features

- Standards: IEC, GOST, GB/DL
- Design: LSC-2A, PM
- Accessibility type: A
- Internal arc class: FLR
- Highly customized versions available
- Switchgear can be back to wall installed

Safety

- Fully type tested according to IEC 62271-200
- Fitted with safety interlocks

Switching devices

- V-Contact VSC contactor

Current and voltage measurement

- Current and voltage sensors
- Conventional current and voltage instrument transformers

Protection and control

- Relion® protection and control relays

Optionally available with

- Optical arc fault protection
- Surge arresters
- Substation management unit COM600S
- Smart Asset Management solutions

Switchgear		7.2 kV	12 kV
Internal Arc Classification (IAC)		AFLR	AFLR
Rated voltage	[kV]	7.2	12
Insulation levels / power frequency / lightning impulse	[kV]	7.2 / 20 / 60	12 / 28 / 75
Rated frequency	[Hz]	50 / 60	50 / 60
Rated main busbar current (40°C)	[A]	...4 000 ^{*)}	...4 000 ^{*)}
Rated feeder current (40°C)	[A]	...400 ^{**)}	...400 ^{**)}
Rated short-time current	[kA x 3 s]	...50 ^{***)}	...50 ^{***)}
Arc proof withstand current (IEC 62271-200)	[kA x 1 s]	...50 ^{****)}	...50 ^{****)}
Height	[mm]	2 200 ... 2 696 ^{****)}	2 200 ... 2 696 ^{****)}
Width	[mm]	400	400
Depth	[mm]	1 340 / 1 390	1 340 / 1 390
Technical catalog		1VCP000405	1VCP000405

*) 4 000 A is achieved with UniGear ZS1 combination

**) Limited by the fuses

***) The internal arc withstand values are guaranteed on the busbar compartment; the supply side.
The fault in contactor and cable compartment is limited by the fuses.

****) With installed gas exhaust duct

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