

MEDIUM VOLTAGE PRODUCTS

UniGear 500R

Air-insulated switchgear for green application.



UniGear 500R is very space efficient solution, designed to reduce the width of the medium-voltage air-insulated switchgear.

Panel design is only 500 mm wide for feeder current up to 2000 A. Its compact design makes UniGear 500R ideal for container installation for primary distribution.

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UniGear 500R

One of the main characteristics of the UniGear 500R switchgear is the isolation of the circuit-breaker from the main busbars by means of the three-position disconnecter.

Features

- Standards: IEC, ENA
- 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
- Vacuum circuit-breaker in a removable arrangement

Switching devices

- Vmax vacuum circuit breaker with spring actuator

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		12 kV	17.5 kV
Internal Arc Classification (IAC)		AFLR	AFLR
Rated voltage	[kV]	12	17.5
Maximum service voltage	[kV]	12	15.4
Insulation levels / power frequency / lightning impulse	[kV]	12 / 28 / 75	17.5 / 38 / 95
Rated frequency	[Hz]	50 / 60	50 / 60
Rated main busbar current (40°C)	[A]	...4 000	...4 000
Rated feeder current (40°C)	[A]	...2 000	...2 000
Rated short-time current	[kA x 3 s]	...31.5	...31.5
Arc proof withstand current (IEC 62271-200)	[kA x 1 s]	...31.5	...31.5
Height	[mm]	2 200 ... 2 533 ^{*)}	2 200 ... 2 533 ^{*)}
Width	[mm]	500 / 1 000	500 / 1 000
Depth	[mm]	1 320	1 320
Technical catalog		1VCP000285	1VCP000285

*) With installed gas exhaust duct

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