

## UniGear ZS1 - Back to back

### Air-insulated switchgear for power application



Each panel consists of two single units connected in double busbar arrangement. They can be equipped with circuit-breaker or contactor as well as with all the accessories available for the conventional units of the switchgear. Each panel is provided with a cubicle to take the auxiliary instrumentation, placed in the upper part.

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UniGear ZS1 - Back to back

There is the possibility to extend the switchgear on both ends without putting out of service the switchgear itself.  
All the service operations are carried out from the front.

All the significant components are identical to those used for the single and double level units and therefore the same service and maintenance procedures are guaranteed.

#### Features

- Standard: IEC
- Design: LSC-2B, PM
- Accessibility type: A
- Internal arc class: FLR
- Highly customized versions available

#### Safety

- Fully type tested according to IEC 62271-200
- Fitted with safety interlocks
- Circuit breaker racking with closed doors

#### Switching devices

- Vacuum circuit breaker
- SF6 circuit breaker
- Vacuum contactor

#### Current and voltage measurement

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

#### Protection and control

- Relion® protection and control relays

Switchgear		12 kV	17.5 kV	24 kV
Internal Arc Classification (IAC)		AFLR	AFLR	AFLR
Rated voltage	[kV]	12	17.5	24
Insulation levels / power frequency / lightning impulse	[kV]	12 / 28 / 75	17.5 / 38 / 95	24 / 50 / 125
Rated frequency	[Hz]	50 / 60	50 / 60	50 / 60
Rated main busbar current (40°C)	[A]	...4 000 <sup>1)</sup>	...4 000 <sup>1)</sup>	...3 150 <sup>1)</sup>
Rated feeder current (40°C)	[A]	...4 000 <sup>1)</sup>	...4 000 <sup>1)</sup>	...3 150 <sup>1)</sup>
Rated short-time current	[kA x 3 s]	...50	...50	...31.5
Arc proof withstand current (IEC 62271-200)	[kA x 1 s]	...50	...50	...31.5
Height	[mm]	2 200 ... 2 696 <sup>2)</sup>	2 200 ... 2 696 <sup>2)</sup>	2 325 ... 2 733 <sup>2)</sup>
Width	[mm]	650 / 800 / 1 000 <sup>3)</sup>	650 / 800 / 1 000 <sup>3)</sup>	800 / 1 000 <sup>3)</sup>
Depth	[mm]	2 680	2 680	3 390

1) In case of Longitudinal Bus-tie only up to 2 500 A

2) With installed gas exhaust duct

3) Depending on rating of nominal current

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