

UniGear ZS1

Double busbar system

Air insulated switchgear for power application

Each panel consists of a single unit that is equipped with circuit-breaker or contactor and two line-disconnectors, one for each busbar, 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.

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.



Range

- ...12-17.5 kV, ...4000 A, ...31.5 kA
- ...24 kV, 2500 A, 25 kA
- Standard IEC
- Highly customized versions

Safety

- Fitted with safety interlocks
- Internal arc classification IAC AFLR
- Classified LSC-2B, PM
- CB racking with closed door

Flexibility

- Wide applications
- Vacuum and SF6 circuit-breaker
- Vacuum contactor
- Traditional CT/VT and sensors
- Free-standing solution

Quality

- ABB quality
- Large installed base
- Installed in high number of Countries

Design includes

- Protection and control
- Earthing switch
- Bay computer

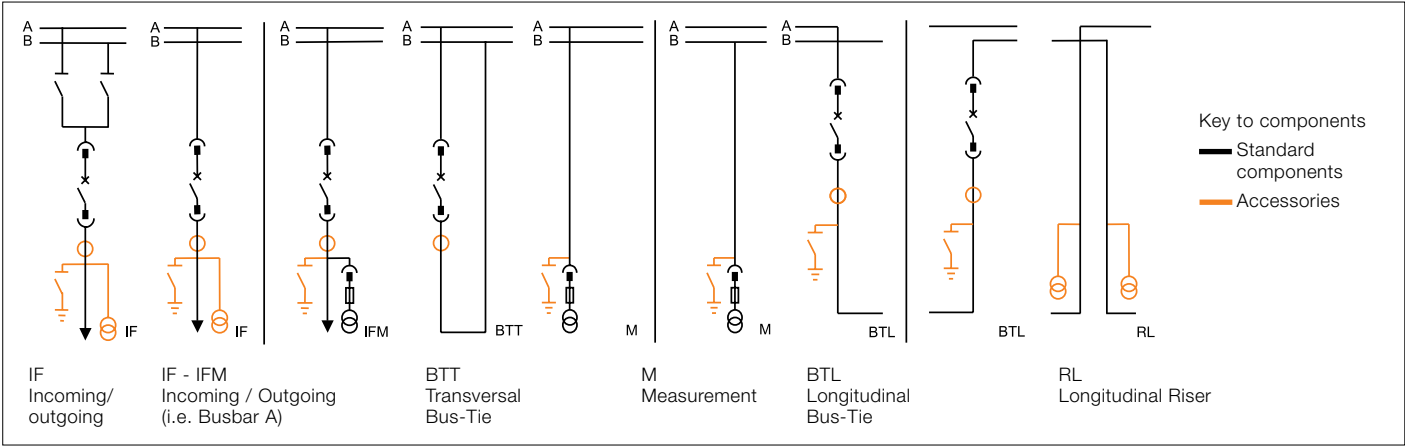
Technical data

Switchgear		UniGear 12	UniGear 17.5	UniGear 24
Type of construction - Internal Arc Classification		IAC AFLR	IAC AFLR	IAC 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]	... 4000	... 4000	... 2500
Rated feeder current (40 °C)	[A]	... 4000	... 4000	... 2500
Rated short-time current	[kA x 3 s]	... 31.5	... 31.5	... 25
Arc proof withstand current (IEC 62271-200)	[kA x 1 s]	... 31.5	... 31.5	... 25
Tested according to		IEC	IEC	IEC
Overall dimensions of the basic cubicle	H [mm]	2200 ... 2700 *)	2200 ... 2700 *)	2400 ... 3000 *)
	W [mm]	650 / 800 / 1000	650 / 800 / 1000	800 / 1000
	D [mm]	2021	2021	2570

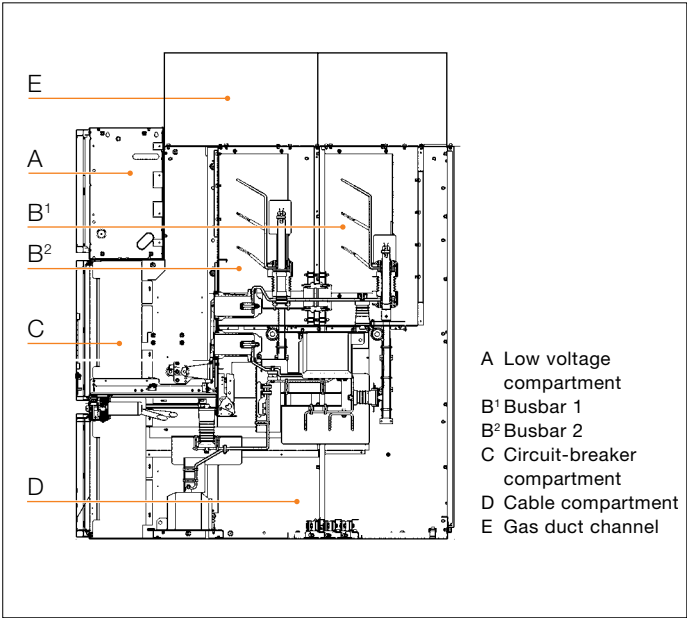
*) Height with standard gas duct



Single-line diagram of typical units



Typical feeder unit



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