

UniGear 500R – ENA approved version

Single busbar system

Air insulated switchgear for green applications

2000 A load current in a 500 mm wide panel – ABB's well proven UniGear family of switchgear is now extended with a highly space efficient solution, the UniGear 500R.

Designed for the highest levels of safety and reliability, the UniGear 500R is also very easy to use. All operational and maintenance actions are carried out from the front of the panel, which is equipped with mechanical safety interlocks between circuit-breaker, line disconnecter and cable testing device. The vacuum circuit-breaker is the well-proven Vmax type in a removable arrangement. For optimal flexibility, the UniGear 500R is designed to be used in combination with other versions of UniGear switchgear, such as ZS1, 550 and MCC.

Range

- ...12 kV, ...2000 A, ...25 kA
- ENA and IEC standards
- Standard and customized versions

Features

- 500 mm wide panel at 2000 A load current
- Cable testing facility
- 790 mm cable termination height



Safety

- Fitted with safety interlocks
- Internal arc classification IAC AF
- Classified as LSC-2A, PM

Flexibility

- Wide range of applications
- Traditional and IEC 61850 based protection and control solutions
- Ring core, block type instrument transformers

Technical data

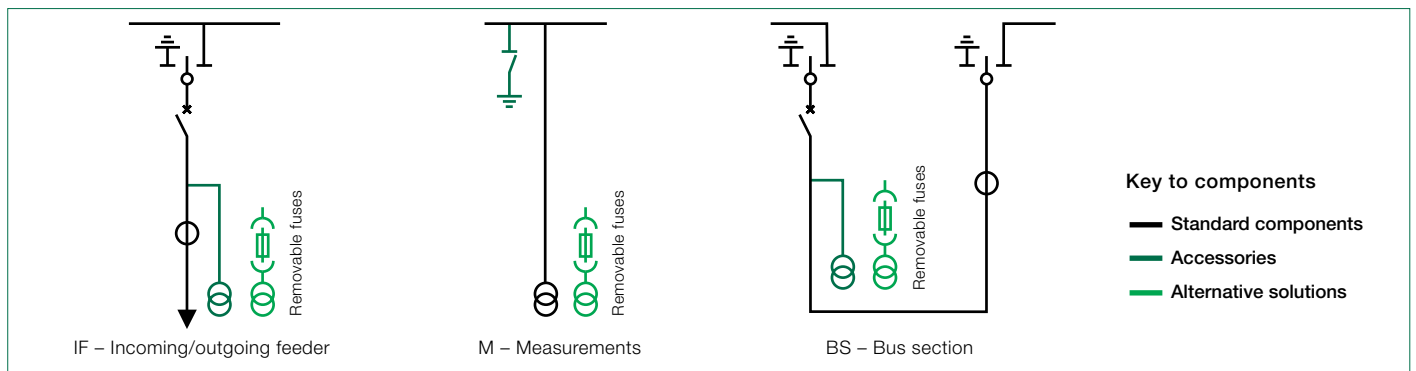
Switchgear

Switchgear		UniGear 500R	
Type of construction - Internal Arc Classification		IAC AF	
Rated voltage	[kV]	12	
Insulation voltage / power frequency / lightning impulse	[kV]	12/28/75	12/38/95
Rated frequency	[Hz]	50-60	
Rated main busbar current (40 °C)	[A]	... 4000	
	[A]	630	
	[A]	1250	
	[A]	2000	
Rated short-time current	[kA x 3 s]	16 / 20 / 25	
Arc proof withstand current (IEC 62271-200)	[kA x 1 s]	16 / 20 / 25	
Tested according to		ENA / IEC	
Overall dimensions of basic cubicle	H [mm / inch]	2200 / 86,5	
	W [mm / inch]	500 - 1000 / 19,7 - 39,9 *)	
	D [mm / inch]	1140 / 44,9	

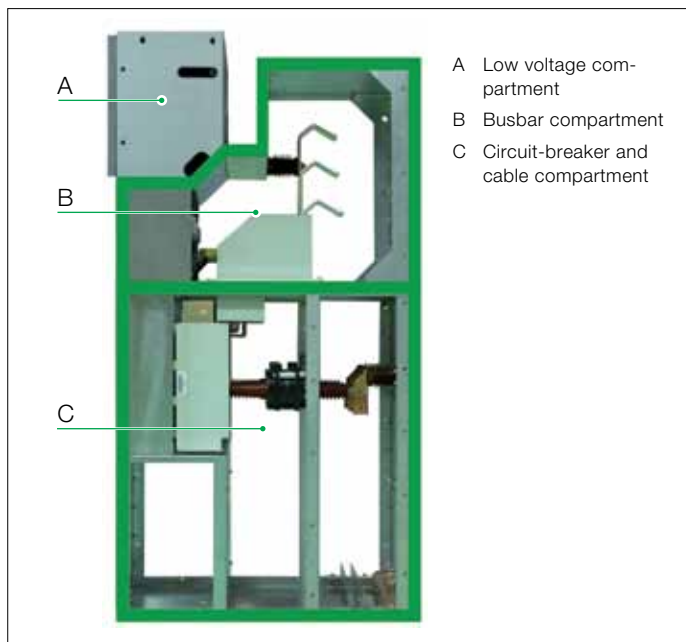


*) 1000 mm / 39,4 inch is relevant to bus section unit

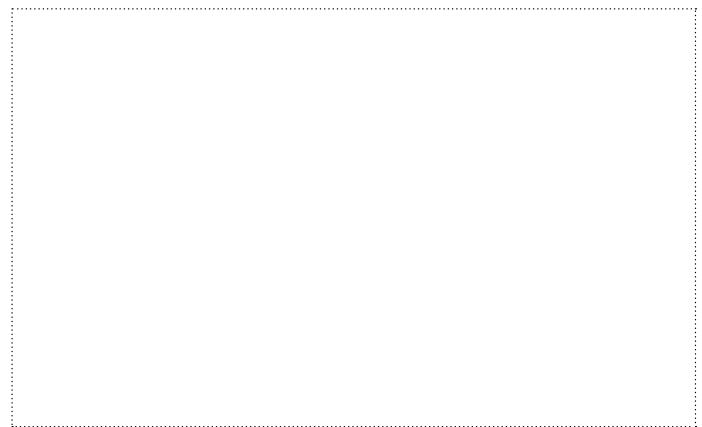
Single-line diagram of typical units



Typical feeder unit



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