

# UniGear ZVC

## Arc-proof, air insulated motor control center with fused vacuum contactor



UniGear ZVC is an optimized solution for switching of motors and transformers in networks rated up to 7.2 kV, 4000 A and 50 kA fault level.

UniGear ZVC is offering the highest degree of safety and reliability, also saving construction space and investment with only 325 mm panel width.

All operations and maintenance actions are made from the front of the panel, which is equipped with mechanical safety interlocks between vacuum contactor and earthing switch.

The vacuum contactor is V7/ZVC as a member of V-Contact series, which is suitable for a high number of hourly operations.

As a member of UniGear Family, UniGear ZVC is designed to be used in combination with UniGear ZS1, 550 and 500R.

### Range

- ...7.2 kV, 400 A, ...50 kA
- GB, IEC standards
- Standard and customized versions

### Flexibility

- Family member of UniGear Platform
- Wide range of applications
- High frequent switching motor and transformer

### Compact

- Only 325 mm wide, 1304 mm deep panel
- Back to wall installation
- Saving investment for construction

### Safety

- High service continuity, LSC2A-PM
- Internal arc classified IAC AFLR 50 kA, up to 1 sec
- Fault current limitation by HRC fuses

### Technical data

Switchgear		UniGear ZVC
Type of construction – internal arc classification		IAC AFLR
Rated voltage	[kV]	7.2
Insulation levels/power frequency/lightning impulse	[kV]	7.2/20 (32) /60
Rated frequency	[Hz]	50/60
Rated main busbar current (40°C) <sup>1)</sup>	[A]	...4000
Rated feeder current (40°C)	[A]	400
Rated short-time current <sup>2)</sup>	[kA x 3 s]	...50
Arc proof withstand current <sup>3)</sup>	[kA x 1 s]	...50
Overall dimensions of the basic cubicle	H [mm]	2200 ...2530 <sup>4)</sup>
	W [mm]	325
	D [mm]	1304, 1554 <sup>5)</sup>

1) 4000 A is achieved with UniGear ZS1 combination.

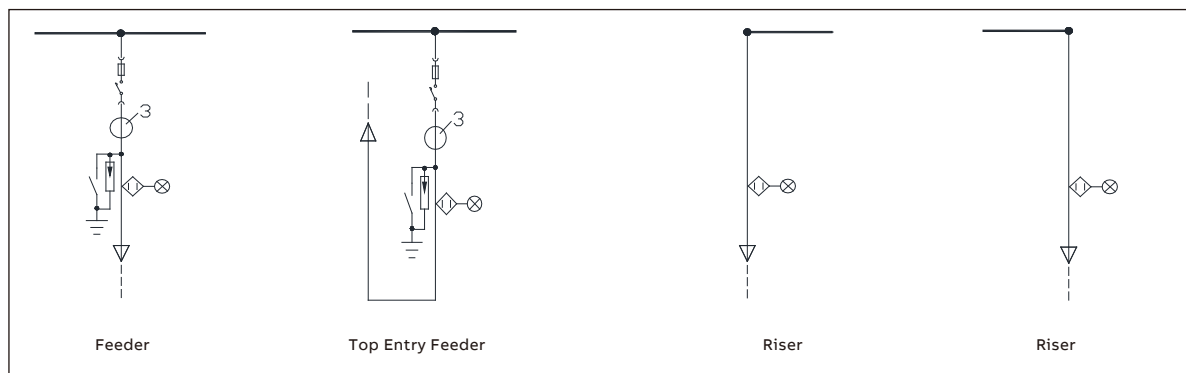
2) Limited by the fuses.

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

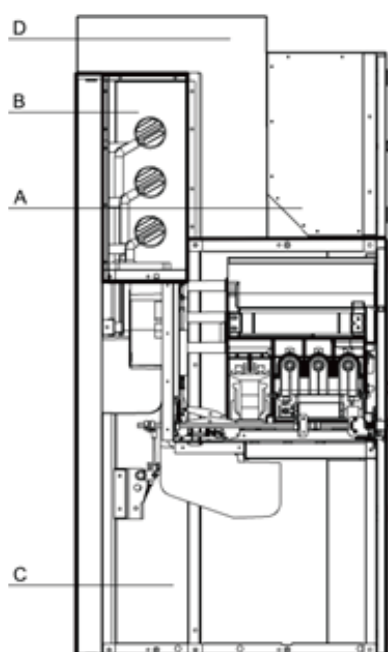
4) Height with standard gas duct.

5) 1554 mm depth for Top Entry+Gas duct variant.

## Single-line diagram of typical units



## Typical feeder unit



- A Low voltage compartment
- B Busbar compartment
- C Contactor and feeder compartment
- D Gas duct

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