

1.6 ABB UniGear ZS1空气绝缘金属铠装式开关设备

ABB UniGear ZS1 Air Insulation Metal-armoured Switchgear



一、产品概述 General

UniGear ZS1开关设备包括单母线柜、双母线柜和双层柜，具有以下特点：

完整的产品系列：UniGear ZS1开关设备可提供完整的产品系列，极大地丰富了系统的解决方案并提高了开关设备的使用效率。此外，采用相同的附件和备品配件，保证了UniGear ZS1系列开关设备服务和维护程序的一致性。

灵活的解决方案：多种方案，满足现场用户的各种需求。例如：即使在船用等运行条件环境恶劣的场所，UniGear ZS1仍能提供一系列的方案，充分满足现场的安装和运行要求。此外，UniGear ZS1的单母线柜、双层柜及UniGear ZVC相互之间可以拼接而无需任何的转接柜，极大地提高了开关设备的空间使用效率。

- 外观新颖，结构紧凑
- 可耐受内部故障电弧
- 采用覆铝锌板，柜架无焊点
- 可靠墙或背靠背安装
- 柜前安装，操作和维护
- 闭门电动/手动操作断路器
- 完善的机械安全闭锁
- 维护简易，工作量极小
- 极高的安全性，UniGear ZS1提供了完整的机械安全闭锁，防止了误操作的发生。UniGear ZS1除通过了国际电工委员会标准和中国国家标准规定的型式试验之外，还通过了主要船级社规定的特殊实验项目。
- 极高的可靠性，UniGear ZS1是基于ABB中压开关设备长期的实际运行经验，并容纳了世界各地用户对中压开关设备的具体要求，是长期的运行经验和创新技术的统一体。

UniGear ZS1 Switchgear includes single-bus cabinet, double-bus cabinet and double-deck cabinet. The characteristics are:

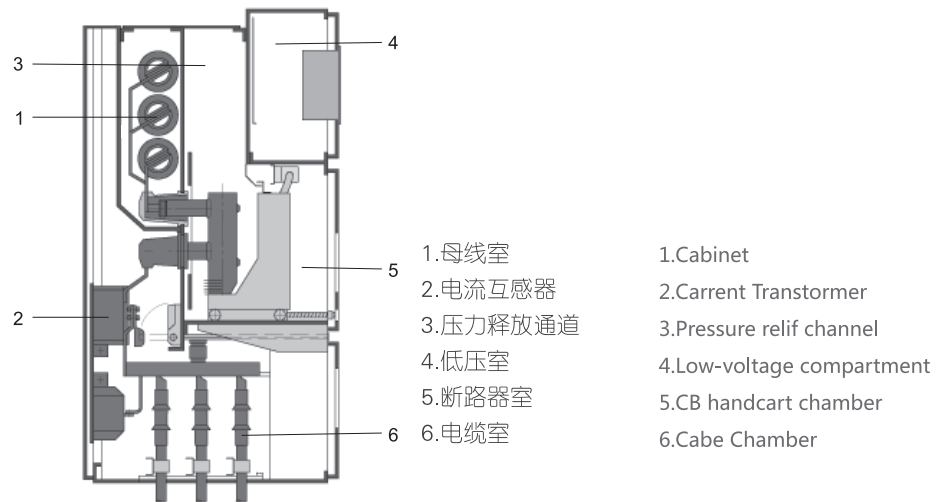
Complete product series: UniGear ZS1 complete series could afford various solutions and increase its operational efficiency. In addition, same accessories and spare parts can ensure the service and maintenance consistency of UniGear ZS1 series switchgears.

Flexible solutions: Various solutions can meet different customers' requirements. For example, UniGear ZS1 can afford a series of solutions to operate under harsh environment (e.g. on board) to meet field installation and operation requirements. In addition, UniGear ZS1 single-bus cabinet, double-deck cabinet and UniGear ZVC can be assembled without any transfer cabinet, so it greatly increases the space utilization.

- Novel appearance, compact structure
- Withstand inner fault arc
- Al-Zn alloy plates, frames without welds
- Wall mounted or back-to-back installation
- Installation, operation and maintenance in front of the cabinet
- Electrically/manually operate circuit breaker with door closed
- Perfect mechanical safe interlocks
- Easier maintenance and less workload

- High safety, UniGear ZS1 can afford perfect mechanical safety interlocks to avoid misoperation. UniGear ZS1 passes not only the type tests of Inter Electrotechnical Commission (IEC) standards and Chinese National Standards (CNS), but also the special tests specified by main Classification Societies.
- High reliability, UniGear ZS1 is developed on the basis of long operational experience of ABB me-dium-voltage switchgears, and obsorbs global customers' requirements on medium-voltage switch-gears. It is a combination of long operational expe-rience and creative technologies.

二、柜体结构 Cabinet Structure



三、技术数据 Tecluical Parameters

产品名称 Product Name	UniGear ZS1		
结构型式 Types	铠装式 Metal-armoured		
额定电压 Rate Voltage	[kV]	12	24
绝缘水平 Insulation Level	[kV]	42/75	65/125
额定主母线电流 (40°C) Rated Main bus current(40 C)	[A]	4000	3150A
额定分支母线电流 (40°C) Rated branch bus current(40 C)	[A]	4000	3150A
额定短路开断电流 Rated short-circuit breaking current	[kA]	...50	...31.5
燃弧耐受电流 Arcing withstand current	[kA]	...50	...31.5
试验标准 Test standard	IEC/GB		
基本柜型外形尺寸 Dimensions	H[mm]	2200/2675	2325/2720
	W[mm]	650/800/1000	800/1000
	D[mm]	1340/1390	1700/1954