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INTRODUCTION

ZF15–363 is a new type of product independently designed and researched by NHVS. The product is smaller and can be used in wide areas. Its technical parameters meet or exceed national and power system standards in China. It has passed the national accreditation and is advanced in the world.



MAIN FEATURES

- Excellent ability of breaking fault current: the circuit breaker adopts miniaturized arc-extinguishing chambers and special nozzles, which can continuously break the rated short-circuit breaking current 50kA for 20 times without maintenance.
- •High insulation level: optimizing the design of the electric field and adopting the reasonable shielding technology to increase the product's insulation level.
- Aluminum enclosure without eddy current loss: aluminum enclosure is light, with good conductivity, high corrosion resistance but no eddy current loss.
- Modular design with strong generality: GIS components are standardized modules, and there are various types of connection elements, so the product's arrangement is quite flexible. The product can satisfy different users' needs by combining different connection elements with specific arrangements, and it is also convenient for future extension of existing projects. Moreover, it can easily form SF₆ HGIS through standardized modules and unified component interfaces.
- ●Convenient installation with short time limit: packing and shipping by a whole bay, with less on-site connecting interfaces, reducing the workload on site.

 The product is tested before leaving the factory, so it is of short installation period and high reliability.

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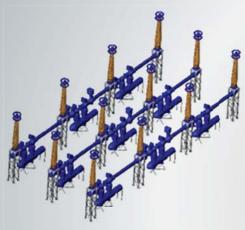
MAIN TECHNICAL PARAMETERS

Item			Unit	Technical data
Rated voltage			kV	363
Rated current			А	4000
Rated frequency			Hz	50
1min. rated power frequency withstand voltage		Phase to earth	kV	520/665 ^{**)}
		Across open contacts		510(+210)
Rated lightning impulse withstand voltage peak value		Phase to earth	kV	1175/1502 ^{**})
		Across open contacts		1175(+295)
Rated switching impulse withstand voltage peak value		Phase to earth	kV	950 / 1140*)
		Across open contacts		950 (+295)
Rated short circuit breaking current			kA	50/63
Rated short circuit making current			kA	125/171
Rated short time withstand current and duration time			kA/s	50/3,63/3
Rated peak withstand current			kA	125,171
Radio interference voltage			μV	500
SF₅ gas pressure (at 20℃ gauge pressure)		CB gas compartment	MPa	0.6
		Other gas compartments		Main busbar:0.5, others:0.45
SF ₆ gas leakage rate for each gas compartment			%/year	0.5
SF₅ gas humidity	Gas compartment with arcing decomposer	Acceptance value	μL/L	150
		Permissible value for long time operation		300
	Gas compartment without arcing decomposer	Acceptance value		250
		Permissible value for long time operation		500
Circuit breaker operating mechanism				Spring hydraulic operating mechanism
Disconnector operating mechanism				Motor operating mechanism
Earthing switch operating mechanism				Motor operating mechanism
Fast earthing switch operating mechanism				Motor spring operating mechanism
Applicable standards				GB、DL、IEC

Note: special orders can be made if customer's requirement exceeds above-mentioned technical data.

The parameters with #) are values for 3000 meters altitude.

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Typical HGIS arrangement model (scheme 1 for 3+0)

TYPICAL PROJECT LAYOUT

