

FWM8-12

环保气体绝缘环网柜

Environmental friendly gas
insulated ring main unit



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概述 Overview

- ◆ The **FWM8-12** environmentally friendly gas insulated ring main unit is a complete set of distribution equipment with a 12KV, three-phase AC 50Hz, and single busbar segmented system. This product has the characteristics of simple structure, flexible operation, reliable interlocking, and convenient installation. It can provide satisfactory technical solutions for various applications and users. The application of sensing technology and information technology, combined with advanced technological performance and simple and flexible configuration schemes, can meet the constantly changing needs of the market and be suitable for the intelligent requirements of the power grid.
- ◆ This **FWM8-12** environmentally friendly gas insulated ring main unit is suitable for industrial and residential cable ring network and distribution network terminal engineering. As a means of receiving and distributing electrical energy, it is particularly suitable for distribution in urban residential areas, small secondary substations, switching stations, cable branch boxes, box type substations, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, sports fields, railways, tunnels and other places.
- ◆ **FWM8-12** environmentally friendly gas insulated ring main unit meets the requirements of relevant national standards, power industry standards, international standards, and other standards. The switch and main electrical components are integrated modules, with solid insulation packaging between conductive parts. Shielded cable joints are used for external wiring, and shielded insulated busbars are used for functional unit wiring. Therefore, the safety of use is greatly improved. The operating mechanism adopts a spring structure, with a mechanical life of more than 10000 times. All operating data and equipment conditions can be remotely monitored and monitored, and can be unmanned, It is actually a high-performance distribution device.
The following units can be selected inside the cabinet to form an economical and practical power supply unit:
Vacuum circuit breaker unit (630A, 20-25KA)
Vacuum load switch unit (630A, 20-25KA)
- ◆ The **FWM8-12** switchgear does not use SF6, does not require gas recovery or protective devices, does not contain toxic arc decomposition products, is easy to inflate, and is environmentally friendly.

技术参数 Technical parameters

Project	
Type of arc extinguishing chamber	Vacuum
Rated voltage	12KV
Rated frequency	50Hz
Rated current	630A
Temperature rise experiment	1.1Ir
Rated power frequency 1min withstand voltage	Interphase, phase to ground fracture 41KA, 48KA
Rated peak lightning impulse withstand voltage (1.2/50us)	Interphase, phase to ground fracture 75KA, 85KA
Short time power frequency withstand voltage of auxiliary and control circuits	2KV
Rated short-circuit breaking current frequency	25KV
Rated short-circuit breaking current/duration	Main circuit, grounding switch grounding circuit 20/4KA/s, 21.7/2KA/s
Rated peak withstand current	63KA
Rated short-circuit making current	63KA
Rated active load current	630A
Partial discharge (measured at 1.2ur)	≤20pC