

## SRM6-12 Full Gas Insulated Ring Main Unit (RMU)



Model:SRM6-12

SRM-12 Full Gas insulated RMU is indoor cabinet type AC metal sealed switching device, with Ac 10kV and 50/60Hz. It is suitable for distribution systems, ring power supply and biradial power supply system in factories, workplaces, residential high-rise buildings, it possesses functions of receiving, distribution and protection. It can also be used in the prefabricated substation.

### Product Introduction

### Product Summary

SRM6-12 Series Gas-insulated Ring Main Unit Switchgear are widely used in 10KV/20KV power distribution systems. SRM6-12 series adopts modular unit mode. Its units are divided into fixed units (non-expandable) and expandable units. These units can be assembled and combined according to different needs. By choosing an expandable bus, SRM6-12 series can be combined at will to achieve full modularity. Due to its fully modular and semi-modular features, SRM6-12 series is extremely flexible and expandable, which can meet the needs of compact switch cabinets in various substations. SRM6-12 series is a completely sealed system, all live components and circuit breaker switches are enclosed in a stainless steel body, so that the entire switchgear is not affected by external environmental conditions, thereby ensuring operational reliability and personal safety, and achieving long service life (in the rated environment, its design life exceeds 30 years) and maintenance-free.

### Environmental Conditions

- 1.Ambient Temperature: No more than +40°C, No less than -40°C. Average temperature no more than +35°C within 24 hours.
- 2.Altitude: No more than 2000m.
- 3.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
- 4.Earthquake Intensity: No more than 8 degrees.
- 5.Vapor Pressure: the average daily value is no more than 2.2kPa, and the average monthly value is no more than 1.8kPa.
- 6.Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

### Product Features

- 1.Fully sealed design, all 10kV switches and busbar electrified bodies are sealed in the gas box welded by 3mm stainless steel plate and the silicon rubber cable plug is applied to achieve the full insulation seal of the cable head,

- so that it is not affected by external environment such as dust, humidity and small animals.
- 2.The switching device has a perfect "five-preventions", with simple and clear operation procedures.
  - 3.Modular design. Each unit module can be combined and extended arbitrarily, which is easy to schemes combination, with a wideapplicable range.
  - 4.Big capacity for feeder line, small occupation, suitable for a variety of needs, wide range of applications.
  - 5.Equipment maintenance-free, highly reliable performance.

### Technical Data

Content	Unit	C Module	F Module	V Module		CB Module	
		Load Switch	Load Switch with Fuse	Vacuum Switch	Disconnecter/Earthing Switch	Vacuum Switch	Disconnecter/Earthing Switch
Rated Voltage	kV	12					
Rated Frequency	Hz	50/60					
Power Frequency Withstand voltage in 1 min	kV	42/48					
Lightning impulse Withstand voltage (Peak)	kV	75/85					
Rated Current	A	1250/630	Note1	1250/630	—	1250/630	—
Rated Closed Loop Breaking Current	A	630	—	—	—	—	—
Rated Cable Charging Breaking Current	A	10	—	—	—	—	—
Rated Short Circuit Making Current	A	50	80	50	50	63	63
Rated Peak Withstand Current	kA	50	—	50	—	63	—
Rated Short Circuit Breaking Current	kA/3S	20	—	20	—	25	—
Rated Short Circuit Breaking Current	kA	—	31.5	20	—	25	—

Rated Transfer Current	A	—	1700	—	—	—	—
Max. Rated current of fuse	A	—	125	—	—	—	—
Loop Resistance	$\mu\Omega$	$\leq 300$	$\leq 600$				
Mechanical Life	times	5000	3000	5000	2000	5000	5000

### Typical Scheme Diagram

