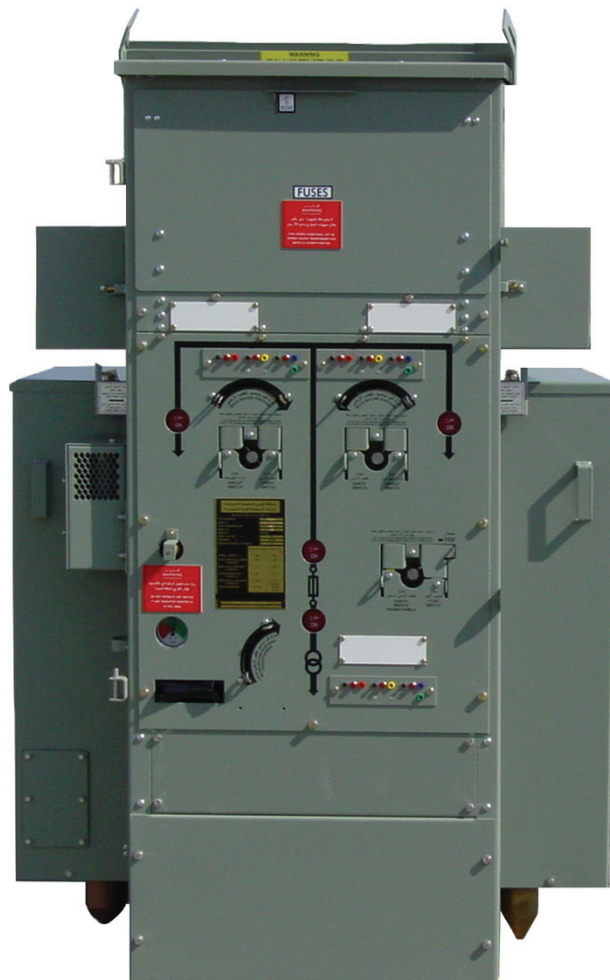


Scimitar

Fused Ring Main Units up to 17.5kV



Scimitar

Side and rear fused ring main unit cabinets

Available up to 17.5kV, the SF6 insulated Fused Ring Main unit is designed for harsh and demanding environmental applications. The units are fully type-tested at KEMA and IPH test laboratories and built to the highest standards to meet stringent customer requirements thereby offering maximum operator safety.

The key features of the range are:

- Fully sealed, environmentally insensitive fuse compartment mounted in air outside an SF6 filled tank
- Compact and fully extensible range
- Free standing and transformer mounted options
- No on-site SF6 gas handling for installation of extensible units
- Easy integration with SCADA network for remote operation and control
- Motorisation for remote control
- Hermetically sealed stainless steel switching chamber
- Up to IP54 for indoor and outdoor use

Additional Safety Features

- Intuitive single line mimic diagram and mechanical indicators for safe operation
- Internal arc protection
- Cable termination boxes are located at the side and rear of unit, away from operator
- Fully interlocked switching mechanism and cable box covers
- Padlocking facility for switching mechanism to prevent unauthorised operation
- Anti reflex mechanism to prevent switch opening under fault conditions
- Separate Earth and Test facility in accordance with IEC requirements
- Voltage presence indication system for live cable indication (Neon indicators)

Accessories

- Remote tripping of fuse switch
- Remote operation of ring switches
- Auxiliary switches
- Neon live line indicators
- Phase comparison facilities
- Castell interlocks for safe operation
- Earth fault indicators
- Fuse blown indication

Scimitar 2x SFRMU



Operation

Mechanism:

The operating mechanisms are of the independent manual spring charged type for both Main and Earth switches, ensuring that speed of operation is not reliant on the operator.

Ring Switches:

The fault make, load break ring switches can be manoeuvred into any one of the three positions: 'ON', 'OFF' or 'CIRCUIT EARTH'. A stainless steel tank contains SF6 gas in which the switch contacts operate.

Fuse Switch:

HV Fuse with a series connected fault make, load break switch also having three positions, 'ON', 'OFF' and 'TRANSFORMER EARTH ON'. A separate independent, manually operated spring mechanism guarantees constant operation speed.

The 'ON' to 'OFF' sequence is achieved either by manual tripping of the spring mechanism or by the action of any of the fuse link striker pins following the rupture of a fuse.

Robustness

At its core, the SFRMU has a stainless steel switching tank which is seam welded to ensure excellent structural integrity. The zinc coated, steel outer cladding is electrostatically painted and then oven cured in order to ensure the qualities required to resist extreme climatic conditions.

Scimitar SFRMU Transformer Mounted



Scimitar SFRMU
Freestanding

Transformer Protection

- Fuse holder: DIN type 442mm in length
- Fuse rating: DIN fuse up to 100A
- Transformer rating: Up to 1250kVA

Technical Data

Type	RMU		Fuse Switch	
Extensibility	Extensible and Non Extensible		Extensible	
Product	SFRMU		SFS1E	
Rated Voltage	12 kV / 15.5kV	17.5kV	12 kV / 15.5kV	17.5kV
Ring Switch				
Rated Current	630A	400A	–	–
Making Capacity (Main/Earth)	62.5kA Pk	54.6kA Pk	–	–
Breaking Capacity (Main)	630A	400A	–	–
Short Time Withstand (Main/Earth)	25kA/1s	21kA/1s	–	–
Basic Impulse Level	95kV P	95kV Pk	–	–
Fuse Switch				
Rated Current	200A			
Making Capacity (Main/Earth)	62.5kA Pk	54.6kA Pk	62.5kA Pk	54.6kA Pk
Breaking Capacity (Main)	20kA			
Short Time Withstand (Main/Earth)	3.15kA/1s			
Basic Impulse Level	95kV Pk			
General				
Rated Frequency	50/60Hz			
Minimum Operating Temperature	-25°C to +55°C			
IP Rating	IP33 (IP54)			
Weight	430kg			
Filling Pressure	0.4 Bar G			
Minimum Gas Pressure	0.05 Bar G			
Standards	IEC 60420, 60265-1, 60694, 60298			
Dimensions				
Height	1660mm	1429mm		
Width	1000mm	650mm		
Depth	940mm			

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