



SM6

Fixed Type Compact Medium Voltage Switchgear

General Characteristics

Medium Voltage fixed Metal Enclosed SF6 Insulated Switchgear (SM6 Type) are used for the medium voltage public distribution systems and medium voltage consumer or distribution substation up to 24 kV.

In addition to all of its special technical characteristics, ease of installation and operation are of the SM6 unique features. The minimized dimensions of SM6 cubicles have made their installation in prefabricated compact housing so easy.

SM6 units meet all the following standards:

IEC 298, 265, 129, 694, 420 & 56

Dimensions

375 to 750 × 1600 × 840 mm (W×H×D)

Advantages

- DECOM technology of Germany
- Type tested in FGH Germany and CESI laboratory in accordance with IEC694 & IEC298 standards.
- Aluzinc or Galvanized framework.
- Fixed and firm structure through bolts and Extendible from both sides.
- Separate LV Compartment.
- High reliability in operation and protected against Internal Arc (Arc Proof).
- Suitable for installation in high voltage substations.
- Requires to minimal space to install.
- Easy installation and operation and minimized repair and maintenance.
- High security for operator due to adequate interlocks.
- Moveable body through lifting hooks on the upper part of switchgear.
- Due to the low space and low weight occupancy, civil works and the related costs have dropped significantly.
- Advance technology due to use of SF6 gassing disconnecter and circuit breaker.
- Remote control and motor operation of mechanism.
- Mimic diagram shown on mechanism and possibility of installation of padlock.
- Make & Break operation with the minimum manpower intervention.





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Type of Cubicles

Medium Voltage fixed Metal Enclosed SF6 Insulated Switchgear have four cubicle types including:

- A. **IM Type:** Incoming or Outgoing cubicle
- B. **QM Type:** Fuse-switch combination cubicle
- C. **Cm Type:** Measuring Cubicle
- D. **DIM-A Type:** Circuit Breaker Cubicle



Technical Specification

Rated Voltage AC (kV)		3.6 - 24
Power Frequency Withstand Voltage AC (kV)		50 (1 min)
Rated Impulse Withstand Voltage AC (kV)		125
Rated Current (A)		630 - 1250
Short Time Withstand Current (kA)		16 (1 sec)
Peak Withstand Current (kA)		40
Ingress Protection (IP)		IP2X
Earth Switch Breaking Capacity (kA)		16 (1 sec)
Power & Control Cables Inlet/Outlet		Bottom
Painting		Electrostatic Powder (Epoxy+Alkyd)
Weight (kg)		120 - 400
Dimensions (mm)	Height	1600
	Width	375
	Depth	940



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SORELTEK S.A: Rue De La Grosse Tour, 18
1050 Ixelles – Belgique-N° d'enregistrement 0885917529
Téléphone: +3226404675 email: info@soreltek.com