

# Robie MVSG

## MEDIUM VOLTAGE SWITCH GEAR UP TO 36KV

Robie MVSG is available in one or more vertical section assemblies to provide safe, low-cost switching and circuit protection where occasional or infrequent disconnecting means is desired. The three-pole switch, with the quick-make, quick-break mechanism, will interrupt its rated load current. Optional fuses can assure short-circuit protection at all times.



### **Complies with IEC 60694 / 62271-200**

- Personnel Safety
- Operating Safety with High Reliability and Low Maintenance
- Reduced dimensions for installation in small rooms
- Very Flexible in use and when upgrading
- SCADA ready

### *Features:*

- Separate compartment for Components, Busbars and Cable.
- Switchboard enclosure is made of sheet steel protected by galvanic coating and powder coating for maximum durability.
- Designed to be fitted with ABB, AREVA or SIEMENS MV Breakers or any brand which the customers specify.

### *Benefits:*

- System easily allows the assembly to be configured to suit all technical conditions and plant operational procedures .
- Design integrates features of modern protective relays to guarantee safety, reliability and security of property investments.

TYPE OF PROTECTION	5kV / 15kV						36kV					
	INDOOR			OUTDOOR			INDOOR			OUTDOOR		
	630A	1250A	2000A	630A	1250A	2000A	630A	1250A	2000A	630A	1250A	2000A
LOAD BREAK SWITCH	✓	✓		✓	✓		✓			✓		
SF6 / VCB	✓	✓	✓	✓	✓	✓		✓			✓	

15kV MVSG	Dimension (mm)		
CONFIGURATION	Height	Width	Depth
1 High, VCB	2000	800	1300
2 High MTS, VCB	2000	800+400	1300
2 High M+F, VCB	2000	800	1300
2 High T+F, VCB	2000	800+400	1300
LBS	2000	1000	500

36kV MVSG	Dimension (mm)		
CONFIGURATION	Height	Width	Depth
VCB	2400	1800	3500
LBS	2800	1800	2800

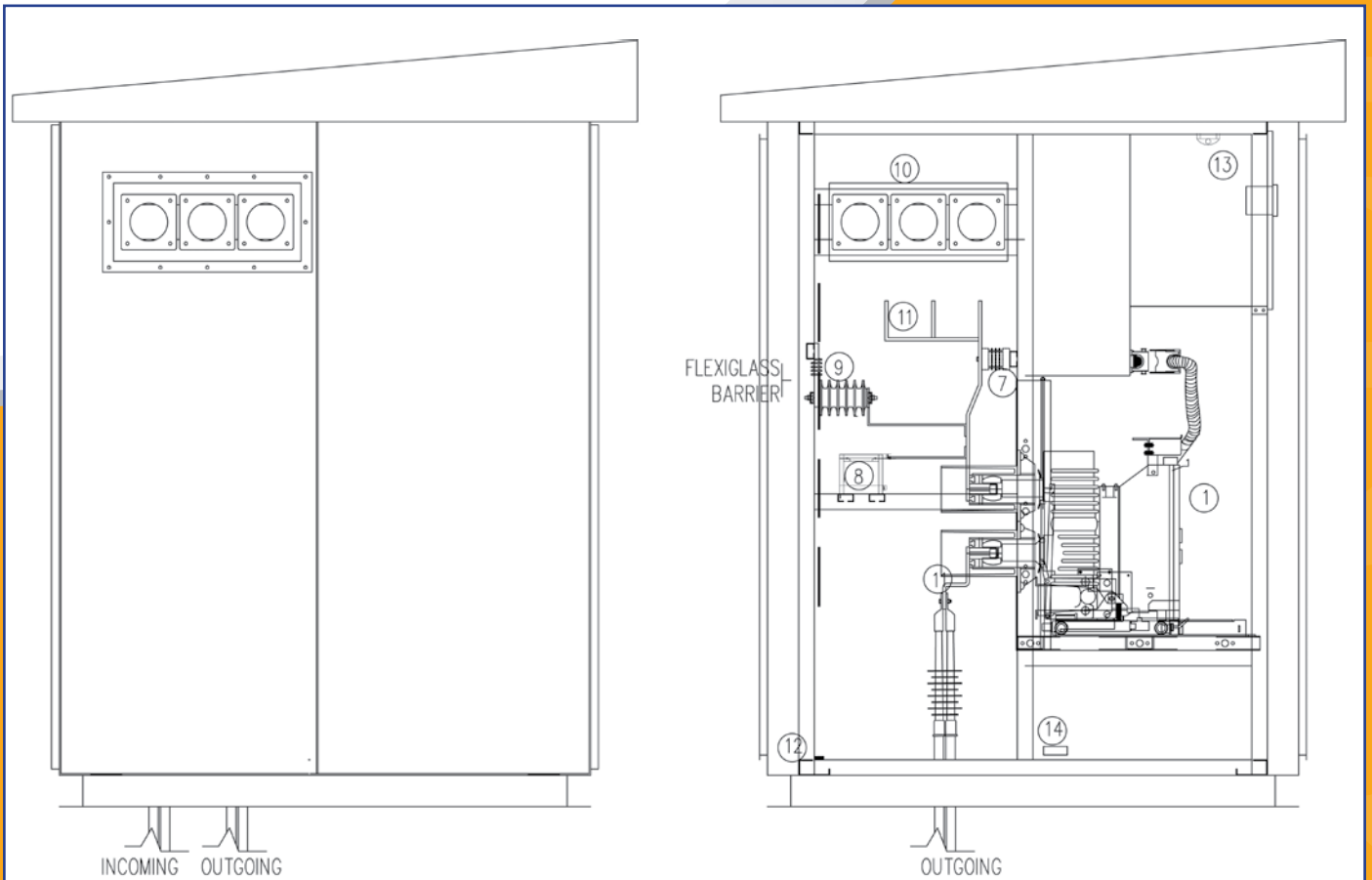
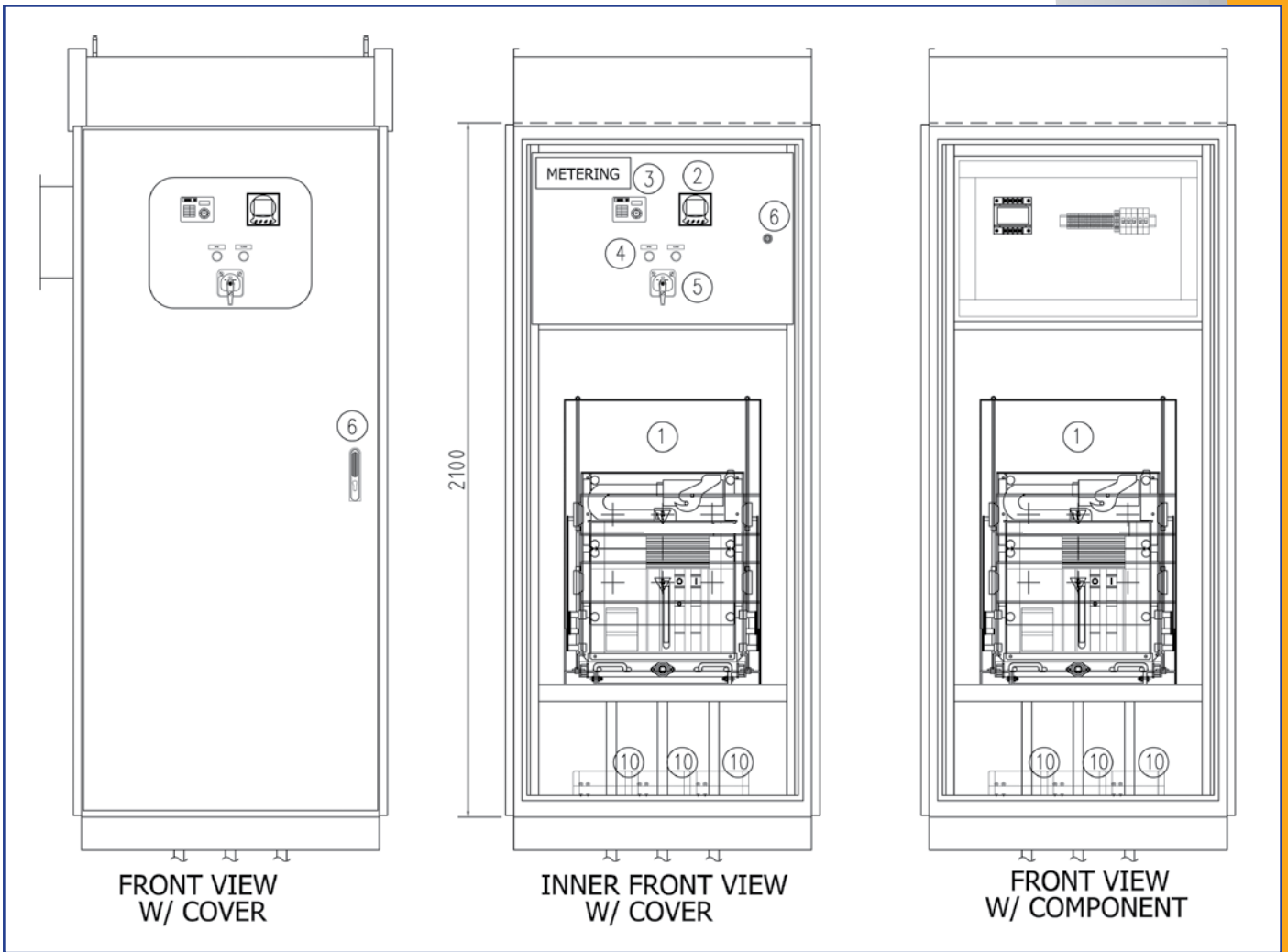


Legend: ✓ = available variants

**NOTE:**

1. SF6 or VCB are either Fixed or Drawout type.
2. SF6 or VCB (5 or 15kV) can either be single high or two high configuration.
3. SF6 or VCB (5 or 15kV) can be used as either MTS (using Kirk Key as Mechanical Interlock) or ATS (using an intelligent circuit).
4. VCB can either be fixed or draw-out type with or without earthing switch using ABB, AREVA and Siemens SION.





## APPLICATION

ROBIE MVSG switchgear can be applied for many switching duties whether manual, motor operated or automatic operation is specified:

- Transformer primary switching
- Transformer secondary switching
- Power distribution switching
- Switching at unit substation

ROBIE MVSG metal-enclosed switchgear provides economical and reliable circuit switching and fault protection for medium-voltage circuits of 5kV, 15kV and 36kV. ROBIE is ideal for applications where load interrupter switches should not be applied, such as ground fault protection, high duty cycle applications, or high speed automatic transfers.

It is also a better engineering alternative than load interrupter switches for applications involving shunt tripping, single phase protection, capacitor switching, and ground protection.

ROBIE MVSG switchgear can also be an economic benefit in single ended substations since it may allow the customer to eliminate the secondary main protection and switching device.



## GENERAL SPECIFICATION

Rated maximum

Voltage classes: 5kV, 15kV and 36kV

Type: Free standing. Designs are available in indoor and outdoor non-walk-in configurations.

Control Voltage: 240Vac/125 Vdc

Enclosure: Made from B.I. steel sheet gauge #12 for the structure and gauge #14 for the cover panels. All doors shall be gasketed neoprene type. The Versa Modular MV switchgear enclosure design shall be bolted together to form a rigid and stable structure. The enclosure shall be in accordance with IEC 60649/IEC 62271-200 with equivalent ANSI C37.20.2

Paint: The enclosure shall be cleaned with the advanced metal treatment process (degreasing, derusting, metal conditioning and zinc phosphating), powder coated and oven baked for outdoor/indoor use.



### 1 Robie

Single High Robie MVSG for 7.2/17.5/24kV application, using SF6/VCB Fixed type, from 1250A to 2000A (Main, Feeder, or Tie) in an indoor application

Single High Robie MVSG for 7.2/17.5/24kV application, using SF6/VCB Fixed type, from 1250A to 2000A (Main, Feeder, or Tie) in an outdoor application

Single High Robie MVSG for 7.2/17.5/24kV application, using SF6/VCB Drawout type, from 1250A to 2000A (Main, Feeder, or Tie) in an indoor application

Single High Robie MVSG for 7.2/17.5/24kV application, using SF6/VCB Drawout type, from 1250A to 2000A (Main, Feeder, or Tie) in an outdoor application

Robie MVSG for 7.2/17.5/24kV application, using 630A LBS for indoor application

Robie MVSG for 7.2/17.5/24kV application, using 630A LBS for outdoor application

### 2 36kV MVSG

36kV MVSG, using a 1250A SF6/VCB for indoor application

36kV MVSG, using a 1250A SF6/VCB for outdoor application

36kV MVSG, using a 630A LBS for indoor application

36kV MVSG, using a 630A LBS for outdoor application

### 3 7.2/17.5/24kV

Two High MVSG for 7.2/17.5/24kV system with a capacity

of 1200A or 2000A (Drawout/Fixed Type), Manual Transfer switch, in an indoor application

Two High MVSG for 7.2/17.5/24kV system with a capacity of 1200A or 2000A (Drawout/Fixed), Manual Transfer switch, in an outdoor application

Two High MVSG for 7.2/17.5/24kV system with a capacity of 1200A or 2000A (Drawout/Fixed type), Automatic Transfer switch, in an indoor application

Two High MVSG for 7.2/17.5/24kV system with a capacity of 1200A or 2000A (drawout/Fixed type), Automatic Transfer switch, in an outdoor application

Two High MVSG for 7.2/17.5/24kV system with a Main of 1200A or 2000A and a feeder of 630/1200A (Fixed type), in an indoor application

Two High MVSG for 7.2/17.5/24kV system with a Main of 1200A or 2000A and a feeder of 630/1200A (Fixed Type), in an outdoor application

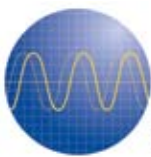
Two High MVSG for 7.2/17.5/24kV system with a Tie breaker of 1200A or 2000A and a feeder of 630/1200A (Fixed type), in an indoor application

Two High MVSG for 7.2/17.5/24kV system with a Tie breaker of 1200A or 2000A and a feeder of 630/1200A (Fixed Type), in an outdoor application

### 4. Robie MVSG - Synchronizing Gear

Synchronizing panel for 17.5kV system using 1250 - 2000A for 2 or more generators

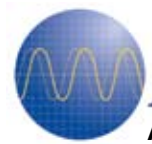
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