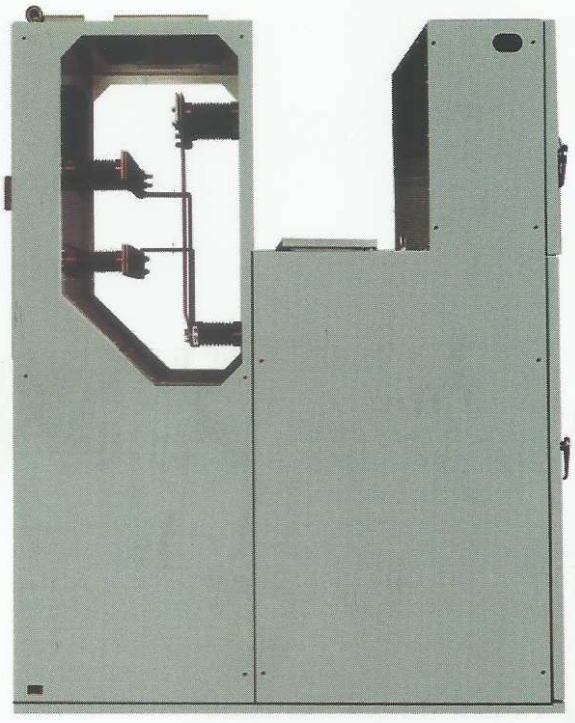
24kV Metal-Clad Switchgear

Factory - Assembled, Type - Tested / IEC 62271-200

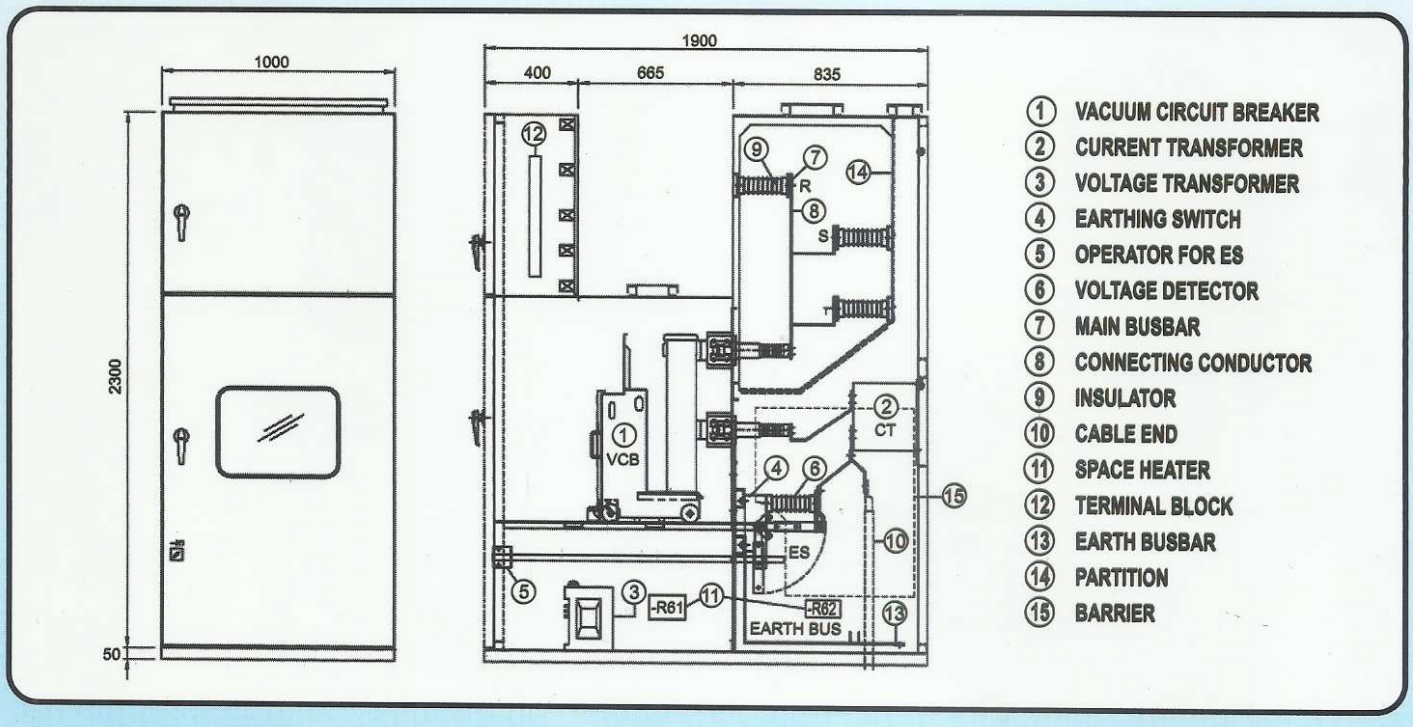
INDUSTIRA®
SWITCHGEAR & CONTROLGEAR MANUFACTURER

Certified System
Quality Endorsed Company ISO 9001



SPECIFICATION

Rating	Voltage		24kV
	Frequency		50Hz or 60 Hz
	Main busbar current		1250 A, 2000A, 2500A
	Circuit current		630A, 1250A, 2000A
	Insulation level		Impulse : 125kV, Power Frequency : 50kV
	Peak withstand current		63kA
	Short-time current		25kA - 1 sec
	Breaking current		25kA
	Closing time and Open/Tripping time		≤70ms
	Making current		63kA
	Operating duty		O-0. 3sec-CO-15sec-CO (option) O-0. 3sec-CO-3min-CO (standard)
	Applicable Standard	Switchgear	IEC 62271-200
		Circuit Breaker	IEC 62271-100
Specification	Construction		Metal-Clad Switchgear
	Degree of protection		Enclosure : IP 4X Partition : IP 2X
	Closing operation and triping control system		Motor-charged spring with manual and electrical release
	Tripping system		Shunt trip
	Closing Control source		DC 110V (standard) DC : 24, 30, 48, 125, 220V (option) AC : 110, 220V (option)
	Tripping control source		
	Spring charge motor voltage		
	Normal service condition		● Ambient air temperature Max. 40°C, Min -5°C 24H average value close not exceed 35°C
			● Relative humidy 24H average value does not exceed 95% 24H average vapour presure does not exceed 22 mbar
			● Altitude does not exceed 1000 meter
Dimension	Width (mm)		1000
	Depth (mm)		1900
	Height (mm)		2300
VCB	VCB Brand		Siemens, Fuji, LS



Cubicle / Enclosure

The cubicle construction is fully Metal-Clad as defined in IEC 62271-200 internally the switchgear cubicle is partitioned to provide separate compartment for :

1. Busbar
2. Circuit Breaker
3. Cable Termination
4. LV Compartment

Each compartment except the low voltage compartment is provided with a pressure relief flap

The standard degree of ingress protection for the cubicle is IP 41, as defined in IEC 60529, while for the partition is IP2X

Busbars

The Busbars are fabricate from high conductivity copper and are coated with epoxy or heat shrink material to provide isolation

Current Transformer

3 pcs double core CT for connection and metering

Earthing Switch

Where required, the switchgear is provide with a fault making integral earthing switch, it is designed manufactured and tested in accordance with IEC 60129. The earthing switch can be operated from the front of the switchgear with use of handle is interlocked mechanically with the circuit breaker.

Safety Shutters

Each safety shutter covering the busbars and circuit contacts can be operated individually.
To facilitate testing each shutter can be latched in the open position without padlocking and subsequently released into the closed position. The shutter mechanism is designed so as to be operated by the movement of the circuit breaker to ensure automatic opening and closing of the shutter.

Padlocking

The switchgear has provisions for padlocking in the following positions :

1. A circuit breaker truck in the service and isolate (testing) positions
2. Mechanical operating knob of the circuit breaker (optional)
3. Safety shutters in the closed position
4. The earthing switch operating handle in the closed or open position

Operating Tools

Each switchboard is provided with the following tools

- o VCB : Manual Charging Handle, Draw-Out Handle
- o ES : Operation Handle

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