

Applications :

- ❖ Utilities and Power Plants
- ❖ Industries and Mines
- ❖ Renewable Energy installations
- ❖ Airports, Ports, Railways etc
- ❖ Supermarkets, Malls, Hospitals, Data Centres, Real Estate & Infrastructure Projects

■ Schneider HVX - X vacuum circuit breaker with truck



■ CB chamber with breaker removed and shutters open



■ CB chamber with breaker removed and shutters close



Technical Data :

Rated Voltage, Ur	kV	12
Rated frequency, fr	Hz	50
Power frequency withstand voltage, Ud	kV	28
Lightning impulse withstand voltage, Up	kVp	75
Rated short time withstand current, Ik	kA	26.3/40
Rated duration of short circuit, tk	s	3
Rated short time current peak, Ip	kA	66.75/100
Rated main bus bar current, Ir	A	up to 3150A/ 4000A *
Rated feeder bus bar current, Ir	A	up to 3150A/ 4000A *
Degree of protection, Internal	IP	20
Degree of protection, enclosure	IP	4X(indoor)\$, 65 (outdoor)
Overall dimensions	-	Contact sales

* Force cooling for 4000A *Copper/ Aluminium bus bars as specified @ For higher ratings contact sales \$ Other IP class on request

As standards, specifications and design change from time to time, please contact sales for confirmation of information given in this catalogue.

Jyoti Switchgears Pvt. Ltd.
R-456, TTC Industrial Area, Rabale, Navi Mumbai - 400 701
Email: sales@jsplindia.com, Mob. +91 9769543825
CIN: U31900MH2007PTC174217, Web: www.jsplindia.com

JYOTI Switchgears™
Energising Future

Certified Core
Components
Panel Builder of

Schneider Electric
Life Is on

JS12

12kV, 3150A / 4000A, 26.3kA/40kA

Metal-Clad Air Insulated switchgear

With Schneider Electric Vacuum Circuit Breaker type HVX / Easypact

Type tested as per IEC 62271-200
Internal Arc Type Tested 40kA (AFLR)



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ABOUT US

JYOTI Switchgears, an alliance partner of Schneider Electric for MV switchboards, is fully backed up by technical expertise of Schneider Electric, and have overall 15 years experience of manufacturing 12000+ MV switchboards.

JS series products manufactured by Jyoti Switchgears, utilise reliable and time tested Schneider Electric make vacuum circuit breakers and components.

With state-of-the art infrastructure, dedicated experienced manpower, quality surveillance and checks at all stages of manufacture, JS series type-tested switchboards are designed to match up to any similar OEM product.

JS12

JS12 metal-clad, air insulated switchboards are type-tested, user friendly, designed for total operational and personnel safety together with high reliability and minimum maintenance.

Construction :

- ❖ Metal-clad switchgear, suitable for indoor installations with modular, compartmentalised and bolted design
- ❖ Metal partitions segregating breaker, bus bar and cable compartments, with separate LV box.
- ❖ Circuit breaker mounted on withdrawable truck
- ❖ PT in a separate compartment or in a cable compartment as required, in fixed or drawout version
- ❖ Switchgear extensible on both sides
- ❖ Shrouds provided on bus bar joints as required
- ❖ Insulating material barriers provided as required
- ❖ Normally offered in powder coated finish, it can be optionally offered in Aluzinc/GI enclosure
- ❖ Bottom/ top cable entry as required
- ❖ Bus duct entry, if required
- ❖ Earthing bus bar running longitudinally throughout the switchgear
- ❖ **Outdoor version is also available with similar features**

Features :

- ❖ Use of time-tested, reliable, low-maintenance Schneider Electric vacuum circuit breaker type HVX-O
- ❖ Circuit breaker mounted on withdrawable truck
- ❖ Safe and easy truck movement behind closed cubicle door
- ❖ Low foot print
- ❖ Pad-lockable a) Safety Shutters b) CB door c) CB on/off access d) CB rack-in / rack-out access
- ❖ Access to cable terminals from rear
- ❖ User friendly installation and maintenance
- ❖ Optional provision of earthing switches in the feeders or separate earthing trucks
- ❖ Optional compatibility with SCADA and other systems for remote control and operation
- ❖ Optional arc flash protection systems available



View with truck mounted VCB
(Cassette mounted VCB also available)

Applicable Standards :

- ❖ IEC 62271-1: Common Specifications
- ❖ IEC 62271-200: AC Metal Enclosed Switchgear and Control Gear
- ❖ IEC 62271-100: Alternating Current Circuit Breaker
- ❖ IEC 60529: Degree of Protection
- ❖ IEC 60071-2: Insulation Co-ordination

*Equivalent IS specifications as applicable.
Other components as per respective Standards.

In Line With Requirements of IEC 62271-200 :

- 1 Loss of service Continuity LCS 2B
- 2 Partition Class PM
- 3 Interlock-controlled accessible compartments
- 4 Tool-based accessible compartment
- 5 Independent pressure relief vents for all HT compartments for internal arc resistance.

Safety To Personnel :

- ❖ All VCB operations including rack-in and rack-out are performed with front door closed.
- ❖ All metal partitions are earthed preventing contact with live parts
- ❖ Metallic shutters are earthed for personnel safety

Operational Safety / Maintenance :

- ❖ Fully mechanical interlocking system ensures human safety.
- ❖ Fail-safe interlocking
- ❖ Access door integrated with interlocking system.
- ❖ Use of proven and low maintenance equipments and components

Tolerance To Environment :

- ❖ Full metal enclosure ensures high resistance to ingress and interference under all operating conditions
- ❖ Insulators have high anti-tracking qualities
- ❖ Special powder coating for outdoor environment

Outdoor Type :

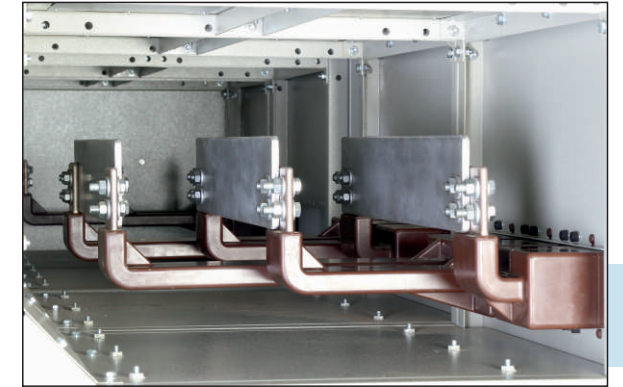


With Outer Door Closed



With Outer Door Open

■ Busbar Chamber



■ Cable Chamber

