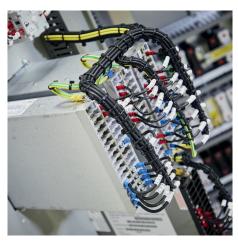


TRUST. WELL EARNED.







ECLIPSE 12kV Fixed Pattern Indoor Metalclad Vacuum Switchgear

The Eclipse is designed to provide a lifetime of unrivalled service, bringing together one of the most advanced operating mechanisms available on the market today, the award-winning magnetic actuator technology.

Key Features

- Superior technology with minimal maintenance
- The fixed pattern design has the simplicity of air insulation and, with the low parts count (the total parts count has been reduced by a factor of x20 and the number of moving parts by a factor of x50), is more compact (500mm wide) than equivalent rated GIS equipment
- The Eclipse boasts of superior operator safety with a fully interlocked disconnector selector mechanism, animated front panel mimic and a front access cable test facility, eliminating the need for any intrusive access to high-voltage compartments
- The Eclipse is certified to IEC62271 and available as a pre-engineered solution in ratings up to 25kA, 2000A. Alternatively, it can be fully engineered to meet exact customers needs
- Environmentally friendly vacuum interrupters
- Internal arc containment
- Voltage Presence Indication System (VPIS) is fitted as standard to all panels (circuit)
- Award-winning magnetic actuator technology powered from substation battery via contactors
- Trip circuit supervision, self diagnostics & position indication contacts included as standard
- Customer's choice of protection

Ratings

Rated Normal Current 630/1250/2000A

Rated Voltage 12 kV

Rated Frequency 50 Hz

Rated BIL 75/95 kV pk

Rated Power Frequency Withstand 28/38 kV 1min

Rated Short-Time Withstand Current 20/25 kArms 3secs

Rated Peak Making Current 50/62.5 kA

Internal Arc Compliance 20 kA 1sec

Rated Short Circuit Breaking Current 20/25kA

Degree of Protection IP4X

Single Capacitor Bank Breaking Current 400/1250A

Circuit Breaker Classification E2, S2, C2

Auxiliary Operating Supply 125/110/48/30 V dc

Busbars Normal Current 1250, 2000A

Typical Weight 500 - 650kg

Ambient Air Temperature -5°C to +40°C

Relative Humidity <95%

Altitude <1000m

Mechanical Endurance M2, 10,000 operations

Dimensions (mm)

Dimensions for a standard Eclipse feeder/incomer panel; (a) 1162 (b) 2160 (c) 500

Dimensions for a standard Bus-section panel; (a) 1162 (b) 2160 (c) 1000

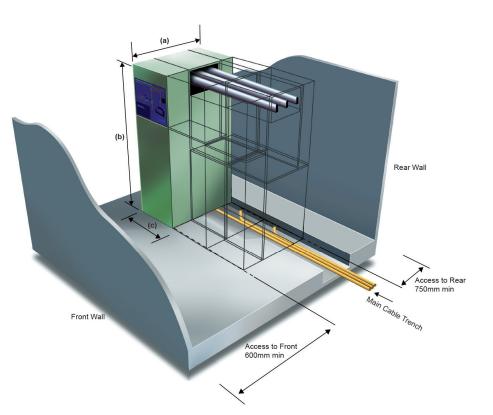
Dimensions for a Busbar earthing switch; (c) 325

Dimensions for a single panel with Busbar VT; **(b)** 2500

Dimensions for top entry cable;

One cable per phase - (a) 1482

Three cables per phase - (a) 1812



Eclipse Engineering Detail

- Sleeved busbars constructed from hard drawn, high conductivity copper, and vermin proof covered joints, with normal current ratings up to 2000A. The busbar arrangement permits future expansion, at either end of the switchboard.
- Fully interlocked, manually operated 3-position disconnector including circuit earth and front panel cable test access. The disconnector can be secured and padlocked in all three positions: 'on', 'off' and 'earth on/test', with its status indicated by animated front panel mimics.
- A single moulding supports the three phase vacuum interrupter assembly, magnetic actuator mechanism and one-piece drive beam.

4 The patented single coil magnetic actuator mechanism is based on a solenoid plunger, held in the tripped or closed position by permanent magnets.

- 5 Three phase cast resin voltage transformer, with manually operated off-load disconnector on the primary circuit.
- Generous CT accommodation enables complex protection schemes to be catered for in a single panel, whilst still allowing for a metering provision. The CT designs are rated in keeping with the short time withstand level of the equipment and comply with IEC 60044-1.

Standards

Patents• GB2289374B

• EP 0 909 453 B1

- IEC 62271 Series of Standards
- ENA Notice of Conformity No. 1024

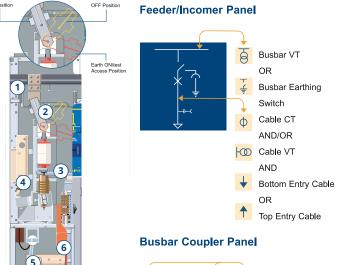


BRUSH Switchgear

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T: +44 (0) 1495 223 001 E: sales@brushswitchgear.com









Busbar Earthing Switch



500mm Standard

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T: +61 (7) 3888 2333

