

ENGINEER . IMPLEMENT . MAINTAIN



Metal Clad | Arc Resistant | Dead Front Design | Magnetic Actuated Breakers | Seismic Tested

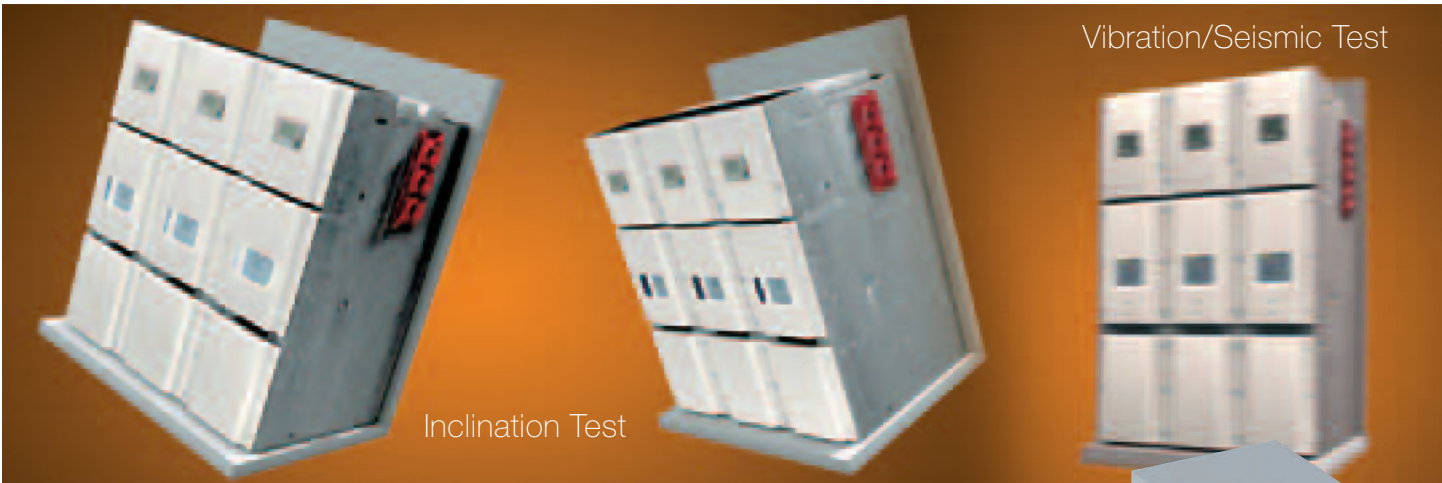


The Prime Engineering Solution

Prime Engineering, in exclusive partnership with ABB, are providing the Unigear metal clad switchgear for Commercial and industrial applications:

Metal Clad Switchgear	Each cell, Cable Incoming or outgoing, main cross bus, breaker cell, and control sections are separated by metallic barriers. A fault in the cable termination cell will not cause a fault in the breaker section.
Arc Resistant	The functional units of the switchgear are guaranteed arc proof in accordance with the IEC 62271-200 Standards, appendix AA, class A accessibility, criteria 1 to 5.
Dead Front Design	The switchgear can be installed with no rear access. Load terminations can be completed from the front of the cell, by removal of the breaker.
Magnetic Actuated Breakers	The operating mechanism is based on a greatly reduced number of components, greatly increasing the life, reliability and number of operations a breaker has. Even the auxiliary contacts are moved by magnetic actuation, improving the reliability.
Seismic Tested And Verified	1 mm amplitude in the frequency range between 2 and 13.2 Hz. – 0.7 g acceleration amplitude in the frequency range between 13.2 and 100 Hz,
Smallest Footprint	of any traditional metalclad switchgear design.
Ratings	15 to 25kV, 125 kV BIL, 600-2500 amps, 31.5kA (3 sec)



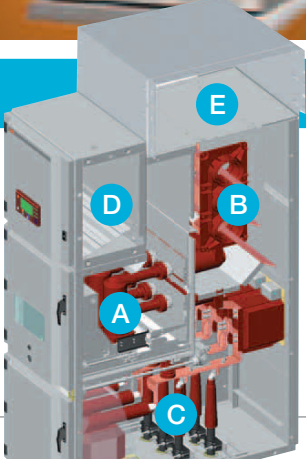


Maintenance Free

The breaker is maintenance free due to the totally sealed pole, magnetic actuated breaker design;

Unit compartments

- A. Circuit-breaker compartment
- B. Busbar compartment
- C. Cable compartment
- D. Low voltage compartment
- E. Compact gas duct channel



Safety

Time Delayed Operation

The operator can walk up to the switchgear and request an open or close operation by pressing a button, and 30 seconds later that function is executed – allowing the operator time to walk away from the front of the switchgear. Optionally time delayed automatic racking of the breaker in or out can be ordered.

Built in Live Line Indicators and grounding switches

The operator can walk up to the switchgear, open the breaker, rack the breaker out, verify the load has been disconnected by live line indicators and visual isolation of the contacts, and ground the load without opening any panel covers and exposing themselves to any Arc Flash or residual energy when grounding.

Approvals

CSA C22.2 No 31-10 (File 251057)& CSA SPE-1000
Built in accordance with the Safety Authority Directive No: D-E3 0903131
IEC approvals – Global Standards Pending:

- IEC 62271-1 for general purposes, IEC 62271-200 for the switchgear, IEC 62271-102 for the earthing switch.
- IEC 62271-100 for the circuit-breakers IEC 60071-2 for the insulation coordination, IEC 60265-1 for the switch-disconnects, IEC 60529 for degree of protections.