

Switchgear: AR – Arc-Resistant

UEE Switchgear

UEE manufactures safe, reliable, and cost-effective CSA-certified switchgear using a modular approach that leverages extensive design experience with a vast library of metal-enclosed, metal-clad and arc-resistant switchgear cell configurations.

Using advanced 3-D modeling techniques, our UEE design team can readily configure complex and completely unique switchgear lineups from pre-existing models without the time and cost typically associated with ground-up custom design and fabrication.

Modular Metal-Clad Arc-Resistant Switchgear

UEE's Arc-Resistant (AR) Switchgear provides an outstanding level of safety for industries increasingly required to manage or eliminate arc-fault hazards. UEE AR Switchgear builds on our existing modular metal-clad design and adds specific features to control the energy associated with internal arcing faults.

UEE AR Switchgear is designed, tested and qualified to type 2B 'accessibility type', as per IEEE C37.20.7. Accessibility type 2B provides a level of safety from the front, rear, and sides of the switchgear in the event of an internal arc fault. 2B also includes a level of safe operation with the opening of the low voltage control or instrumentation compartment door.

Available in one-high or two-high construction, UEE AR Switchgear utilizes an industry recognized and specialized high-voltage vacuum circuit breaker. Following nationally recognized design specifications, the circuit breaker is removable (drawout) with self-aligning primary contacts that automatically make and break the power connections as the breaker is withdrawn.

Secondary contacts are a manual plug type connection. When the breaker is withdrawn in the disconnected, test or removed position, automatic shutters isolate the primary contacts. The AR Switchgear is designed to allow for breaker operation, including racking and un-racking of the breakers, without having to open the inner compartment doors.

Similarly, each control power transformer (CPT) and voltage transformer (VT) is fully removable (drawout). The CPT is provided with a secondary breaker that provides secondary circuit isolation without having to withdraw the unit. The breaker can also be used to ensure the transformers are not drawn out under load.

All main bus bar is insulated using suitably rated, halogen free, cross-linked polyolefin heat shrink tubing and joint boots that meet the requirements of ANSI/IEEE C37.20. Individually grounded metal barriers enclose and compartmentalize the main parts of the primary circuit as well as the control and protection compartment.

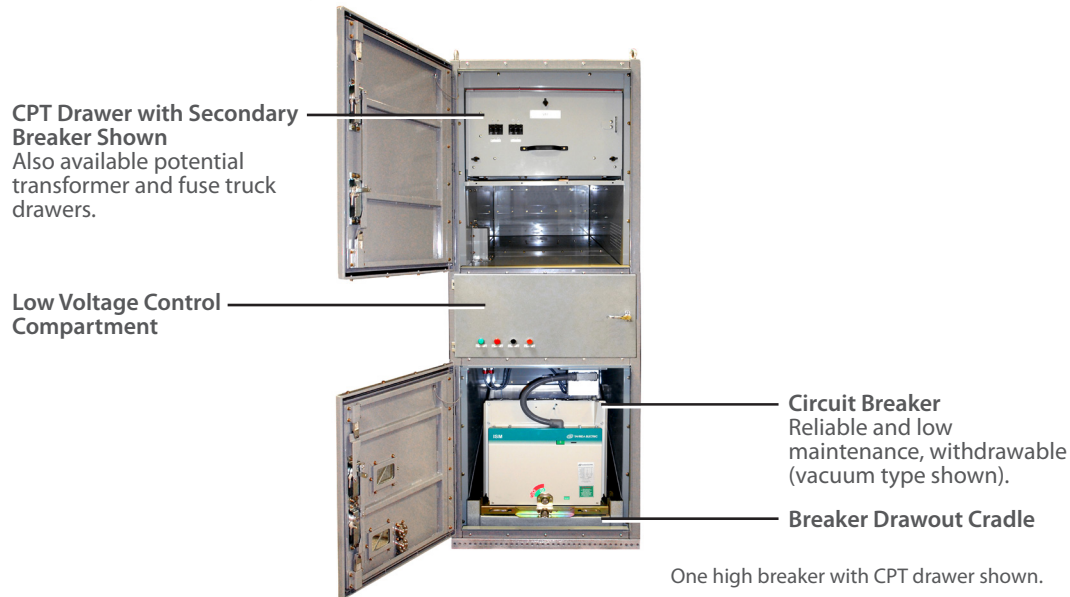


printed in Canada

Standards

All UEE Switchgear is certified to CSA C22.2 No 31-10, and meets the requirements of ANSI C37.20.2. AR Switchgear meets the requirements of IEEE C37.20.7.

UEE AR Switchgear Module



Power Distribution

Typical Specifications

Electrical Ratings	BIL kV	Rated Short-Time Current (2 seconds) kA (RMS Sym.)	Rated Main Bus Current Amperes	Rated Maximum Voltage kV	Accessibility Type
15 kV Switchgear	95	25, 31.5	600 - 3000	15	2B
25 kV Switchgear	125	25, 31.5	600 - 3000	27	2B

Breaker Ratings	BIL kV	Dielectric Strength Test Voltage kV (RMS 60 Hz 1 min.)	Interrupting Current kA (RMS Sym.)	Continuous Current Amperes
15 kV Switchgear	95	36	16, 20, 31.5	600 - 3000
25 kV Switchgear	125	60	16, 20, 31.5	600 - 3000

Higher ratings available on request.

Physical	
Typical Cell Height	111.5" with plenum
Finish	Heat-cured polyester powder-coat
Indoor Enclosure Rating	EEMAC 2
Typical Cell Weight (approx.)	15 kV: 5500 lbs 25 kV: 6000 lbs

For additional technical details or specifications, call 1-250-497-5254 or visit www.uee.com.



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