

245kV MITS GIS



Max Rating: 245kV, 63kA; 4000A
 164kA rated peak withstand current
 1050kV rated peak lightning withstand voltage
 460kV RMS rated AC withstand voltage
 50Hz/60Hz rated frequency
 85psig(CB),71psig(sw, VTs, etc) rated gas pressure
 IP54(Outdoor) protection level of panels

Interrupter/Mechanism: Single-pressure puffer, spring-spring mech

Independent Pole Operation: Yes

Platforms: Not required

Modular Switches: Yes; up to two GS per module, 3-ph are mech linked, GS/DS use same mechs

Modular Sections: A mix between standard sections for interconnecting bus and custom sections for main bus and line exits

Pre-Assembled Shipping Splits: Yes

Local Control Panels: 100% custom

The new 245kV MITS breaker (245MITS) for gas insulated switchgear (GIS) completes our product range of voltages up through 245kV. Among its key benefits, the 245MITS offers independent pole operation in a GIS designed specifically for 245kV applications. Moreover, the 245MITS has a smaller overall footprint compared to previous GIS offerings of the same rating.

The 245MITS is designed with historically proven internal components, like the interrupter main/arc contacts, gas puffer components, conductor contacts, and a spring-spring operating mechanism. These are designs that we have successfully applied and have continually advanced.

The 245MITS offers a combination of arrangements and additional devices that are highly modular, like fast-acting grounds and GIL ports, designed specifically for ratings up to 245kV.

Greater value and cost savings are realized not only in the 245MITS itself, but also in the ancillary equipment and building requirements associated with a GIS, therefore making it a highly competitive option in the GIS market. In addition to the cost saving benefits, the improvements and refined features of the 245MITS provide for a great overall GIS solution.

What it FEATURES

Small GIS footprint

No platform

Modular GIS switches

3-position DS/GS

Large 4" diameter view ports

Independent pole spring operating mechanism

Minimal shipping splits

How it FUNCTIONS

Short, single break circuit breaker with CT chambers and modular disconnect switches on each end close together

Switch viewports and mechanism boxes are close to the ground and are accessible without the use of platforms

Combines various DS/GS/FGS/line ports into a single switch enclosure

Both the DS and GS operate from the same mechanism/linkage

All switch viewports are 4" diameter making it easy to view with the naked eye or a camera device

Each phase has its own spring-spring operating mechanism

All three phases of the circuit breaker, CTs, and switches ship as a whole assembled section

The BENEFITS it offers

Easier fit in constrictive spaces; less ancillary cost, site development, civil/foundations, building size

Safety and ease of maintenance

Cost savings and different design options with single section

Safety; dependable operations between the DS and GS

Safety and ease of maintenance

Meets IPO specifications without having to provide GIS equipment rated much higher than 245kV

Greatly reduced installation time