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Fault Throwing Switch 38kV 25kA Single Phase to Earth Fault Making Switch

Part of our Horizon family of products, the Fault Throwing Switch provides a means of deliberately introducing a phase to earth fault in order to ensure remote end tripping of a circuit breaker, assuming pilot wires are not available for intertripping.

The need to operate the remote circuit breaker can be due to equipment faults, such as thermal protection or low level fault currents that cannot be detected by the remote protection.

A typical application is with transformer feeders to enable the remote feeder breaker to respond to the transformer local fault detecting relays, such as Buchholz protection, local earth fault protection etc.

Key Benefits to Retrofit

- Superior, proven technology using a single phase vacuum interrupter driven by a magnetic actuator for fault initiation
- The switch is housed in an aluminium tank, dielectric insulation is provided by SF₆ gas
- Connection to the system is achieved by either a separable connector or open terminal bushing
- Manual release of the switch is available within the control cubicle housed under the tank
- The fault is 'thrown' through the aluminium tank, two earth points are provided for safely earthing the equipment steel work and to provide a fault path



Ratings

Rated Voltage	kV	38
Short Circuit Making Current	kA	25
Impulse Voltage Withstand	kV	170
Power Frequency Withstand (Wet & Dry)	kV	80
Control Voltage	V dc	110 (48 & 220 Optional)
Rated Frequency	Hz	50/60
Rated 3 sec Short-Time Current	kA	25
Peak Short Circuit Making Current	kA	63
Peak Withstand Current	kA	63
Internal Arc (EATS 41-36)	kA 1sec	31.5
Fault Making Time		190ms
Endurance at 25kA		50 makes
Temperature Range	°C	-50 to +50
Weight	Kg	500

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