

FAULT INTERRUPTING MECHANISMS

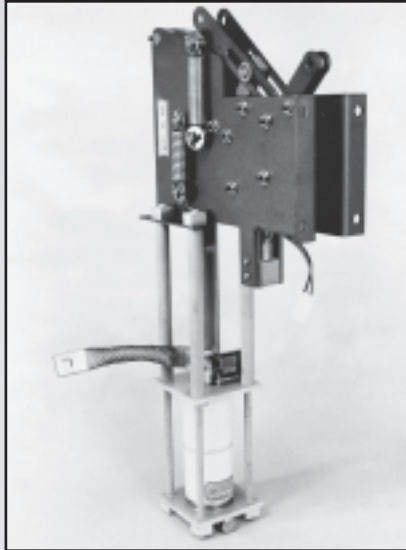
MODEL VI VACUUM INTERRUPTER MECHANISM PRINCIPLE

Add to appropriate switch specifications.

Ratings available through 35kV, with 12 or 20kA symmetric interrupting.

For single phase operation, the model VI vacuum interrupter consists of a single vacuum bottle mechanically linked to a spring-assisted operating mechanism. For three phase operation, the single phase mechanisms are mechanically linked together with an external operating handle assembly. In both cases, once initiated, the interrupting time of the vacuum bottles is approximately 3 cycles (50 mseconds). A position indicator (open-green, closed-red) is mounted to the moving contact and is visible through a viewing window for positive contact position. The mechanical linkage assembly provides a "trip-free" operation permitting the vacuum interrupter to interrupt independent of the operating handle if closing into a faulted circuit.

The control monitors the current on each phase and activates a trip solenoid to open one or all three vacuum interrupters if an overcurrent on any phase is sensed. The control is self-powered by current transformers mounted inside the sealed switch tank. No external power source is required. Load current is required for the control to be activated unless the optional remote power feature is specified. The trip selector is used to select the time-current response curve for the tap circuits. Factory setting for single or three phase tripping is standard. The time-current response curves are chosen with the phase selector switches on the face plate of



◀ *Single phase VI mechanism.*



▼ *Photos below: Operating handles available for manual single phase or three phase operation and reset. Motor actuators can be added for remote operation.*



▶ *Position indicators (right) provide contact position indication through viewing windows.*

the control. Selection of time-current characteristics may be made under load or no-load conditions with continuous current ranges in twelve selectable levels.

The manual trip and reset of the vacuum interrupter is accomplished through an operating handle. Motor actuators can be provided for remote control. Optional push-button on the control also permits manual tripping.

