**G&W MV Current Limiting Protector (CLiP)**

G&W’s CLiP® (Current Limiting Protector) has provided unparalleled system protection, around the world, for over 20 years. It offers the advantages of current limitation for systems rated to 38kV with high continuous current ratings up to 5000A. Fault interruption beyond 300kA rms symmetrical at 15.5kV has been achieved.

The CLiP is an electronically sensed and triggered, commutating form of current limiter, sometimes referred to generically as an Is-Limiter, where a continuous copper bus bar path carries the continuous current. This path is opened under overcurrent conditions to introduce a parallel mounted current limiting fuse which interrupts the fault.

**Key Benefits**

- **System Upgrade** — without replacing under-rated equipment such as circuit breakers, reclosers, switches or bus
- **Reactor Bypass** — to eliminate costly operating losses and eliminate voltage regulation problems
- **Transformer Protection** — to minimize damage by reducing fault energy
- **Cogeneration** — to limit contribution to the system while protecting your cogenerator investment
- **Lower Breaker Ratings** — to reduce the cost of full rated equipment in new installations while improving protection
- **Close Bus Ties** — without exceeding equipment ratings

**Standard Features**

- A standard 3-phase unit comes complete with interrupters, mounting system using stainless steel channel base, isolation transformers, bus supports, sensing and firing logics, and tinned copper bus with pad for customer connection
- Sensing and firing logic units have field-selectable trigger level settings with ranges up to 42kA instantaneous. They do not use transient-susceptible rate of current rise (di/dt) sensing
- CLiP units are suitable for indoor use or for outdoor use with or without an enclosure.

- Units are suitable for either 50 or 60hz applications.

- Three-Phase Remote Indication of Operation provides one relay per phase with 2 N.O. and 2 N.C. (form C) contacts for customer fault sensing circuits (located in the control box). No need to trip all 3 phases for a 1 or 2-phase fault. Use these high-speed remote indication relay contacts to trip an existing breaker and clear the unfaulted phases. No need to replace interrupters in unfaulted phases.

- IP66, NEMA Type 4, welded steel, powder-coated Remote Control Box. This contains terminal blocks for user’s power supply and alarm connections, control voltage monitor relay with 2 N.O. and 2 N.C. (form C) contacts.

- All hardware is stainless steel, brass or silicon bronze.

- The CLiP can be installed in any orientation (with correct positioning of insulators). All control cables are of submersible construction.

- If the CLiP protective capabilities are not required for a particular mode of system operation, it can be disabled locally or remotely. It then acts simply as a busbar. The operation modes of the CLiP are SCADA adaptable.

- Local Indication of Operation. A striker pin projecting from one end of an interrupter indicates an operation has occurred.

- The control box can be adapted to virtually any AC or DC control voltage supply.