

Viper[®]-S



Pictured from top to bottom: Substation mount, standard center-pole mount, alley-arm with Z modules

Three Phase Solid Dielectric Recloser

APPLICATIONS:

- From basic distribution recloser applications to complex loop schemes with switching and tie points.
- Circuit breaker replacement for feeder protection.
- Padmount for underground distribution or generation synchronization.
- Microgrid, renewable energy, and distributed generation interconnections.

FEATURES:

- Faster installation with site-ready designs
- Maintenance free solid dielectric technology
- Automation ready
- Field changeable silicone insulators
- Traditional 14-pin recloser interface (optional 19-pin)

RECLOSER CONTROL OPTIONS:

- SEL-651RA, SEL-351R, SEL-351 series, SEL-651R2, SEL-751A, SEL-311L
- Compatible with Cooper Form relays, Beckwith M-7679, and more

SENSING:

- Encapsulated 1000/500:1 CT
- 400/200:1 CT ratio option for low fault current detection
- Up to six internal voltage sensors (VS)
- VS are capacitive dividers and provide either:
 - Standard amplified 120 VAC output
 - Or Low Energy Analog (LEA) outputs for use with SEL-651RA, SEL-651R or Beckwith M-7679 controls
- External CTs are optional

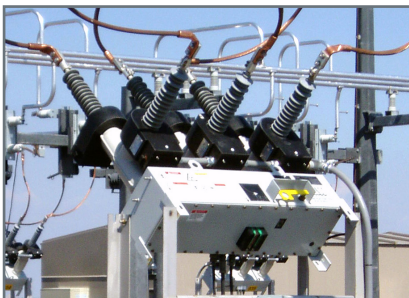
SAFETY FEATURES:

- Dead tank design minimizes flashovers due to wildlife, and provides increased personnel safety.
- Trip handle has redundant protection to prevent close operation with electrical lockout and mechanical block for ultimate operation safety.
- Magnetic actuator with trip spring for fail-safe operation.

RATINGS:

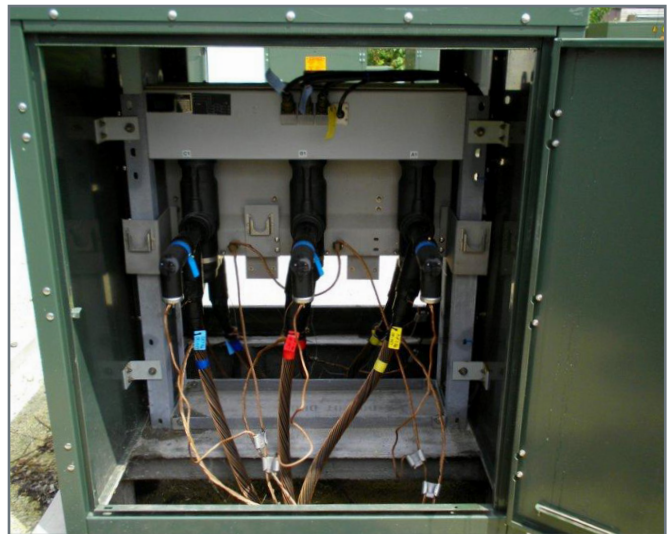
The Viper-S complies with IEEE C37.60 and IEC 62271-111.

Voltage Class (kV)	15	25	35
Max System Voltage (kV)	15.5	27	38
BIL (kV)	110	125	150
Continuous Current (A)	800	800	800
8 Hr. Overload, at 20° C	960	960	960
60Hz Withstand, kV rms Dry, 1 min	50	60	70
60Hz Withstand, kV rms Wet, 10 sec	45	50	60
Interrupting Rating RMS (kA)	12.5	12.5	12.5
Making Current, RMS, asym, KA	20	20	20
Peak, asym (kA)	32	32	32
Short Circuit Current, kA sym, 3 second	12.5	12.5	12.5
Mechanical Operations	10K	10K	10K
Temperature range, -40°C to +65°C (-40°F to 150°F)			



OPTIONS:

- NEMA 2, NEMA 4 or clamp aerial lugs
- Wildlife protectors
- Lightning arresters
- Oil or solid dielectric PTs
- Primary and secondary connections on site-ready designs
- Interface Options:
 - Custom Relay Solution (CRS) for 48 VDC or 125 VDC control power
 - Control Powered 19-pin solutions
 - Voltage Sensing 8 pin interfaces
 - Dead Line Operation on battery backup
 - Spare auxiliary contacts
- Pole mount customized frames:
 - Reversible alley-arm
 - Phase over phase (vertical mount)
- Substation frame:
 - 90° or 45° mount on adjustable frame
 - Existing frame adapters
- Customized padmount enclosures with low voltage compartment



*Pictured above: Dead front padmount application
Pictured left: Substation application with 6 external CTs*

For additional product info visit
www.gwelec.com

CS Viper-S
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