

Teros™ Recloser

Guard the Grid with Confidence

G&W Electric
Engineered to order. Built to last.

FEATURES AND BENEFITS

Simplified Mechanism

The Teros utilizes time proven cycloaliphatic epoxy resin as the solid dielectric insulating medium. Fault interruption is performed using vacuum fault interrupters. The Teros recloser is designed for both 50Hz and 60Hz systems.

Visibility

Viewing window on the mechanism cover allows for clear visibility of the position indicator from a safe distance at the bottom of the pole.

Smart Features

Integration of 6 voltage sensors makes the Teros recloser fully site-ready for distribution automation applications and allows for future automation needs.

Modular Platform

Simple, modular layout of the control components allows for fast and easy service throughout the life of the control, as well as the ease of adding future communication equipment.

Environmental

Standardizing on higher creepage modules and sealing the mechanism significantly reduces the potential of adverse conditions from damaging the recloser throughout its service life. Complies with IEC 60185-2-2008-10 SPS Class E requirements.

Reliability

G&W Electric's recloser experience and commitment to quality, service and support ensures the highest level of reliability.

Serviceability

Our recloser system, designed based on direct customer feedback, provides easy access to all electronic components. This design platform ensures that all the critical operating electronic components are inside the control instead of in the recloser mechanism.

RATINGS & SPECIFICATIONS

Voltage		
Maximum Design Voltage, kV	15.5	27
Voltage Sensors	6	6
Voltage Sensor Ratio	6000:1	6000:1
Voltage Sensor Accuracy***	+/- 3%	+/- 3%
Impulse level (BIL), kV (Open Gap)	125	150
60Hz Withstand, kV RMS (60 seconds dry)	50	60
Current		
CT Ratio	300/600:1	300/600:1
CT Accuracy	+/- 1%	+/- 1%
Continuous Current, A	800	800
Short Circuit Interrupting Current, kA sym, 3 sec	16	16
Making Current, kA PEAK	41.6	41.6
Line-Charging Breaking Current (A)	5	5
Cable-charging current (100%) Amps	25	25
First Pole to Clear Factor (kpp)	1.5	1.5
Mechanical		
Mechanical endurance operations	10,000	10,000
Creepage Distance (mm)	955	955
Minimum Phase Spacing (mm)	381	381
Temperature range (C)	-40 to +65	-40 to +65

*** 4% accuracy above 40°C and below -20°C

Teros Meaning: "To guard or watch over"

TEROS™ RECLOSER Guard the Grid with Confidence

As a leader in the recloser industry, G&W Electric has a proven track record of innovating reliable power grid solutions in the Americas. With the Teros recloser, G&W Electric extends its commitment to quality and service to the global market.

The Teros is a durable and affordable three-phase 15kV and 27kV recloser for electric distribution systems. As a modular, turnkey solution, it offers reliable overcurrent protection, enhancing system reliability and grid resiliency.

Tested to IEC 622711-111 (2019)/ IEEE 37.60 (2018)

Cable Terminal Lugs

Solid Dielectric Insulation

Current & Voltage Sensors

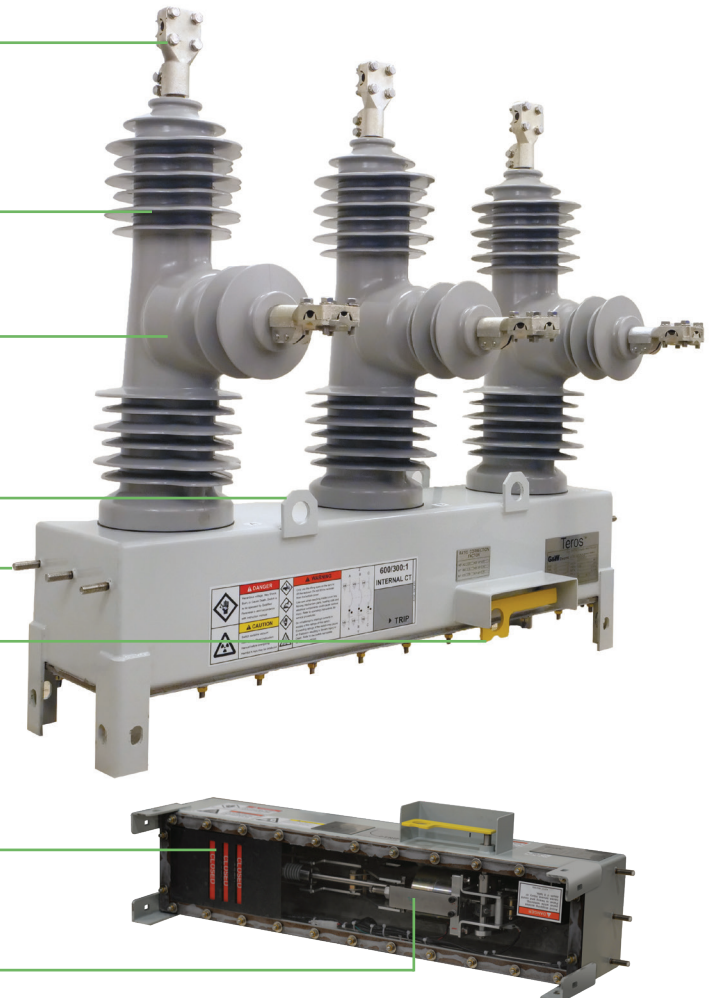
Lifting Provisions

Pole Mounting Bracket Provisions

Manual Trip and Lockout Handle

Position Indicator

Magnetic Actuator



APPLICATIONS

PROTECTIVE APPLICATIONS

- Reclosing
- Fault Location
- Temporary Fault Identification
- Over/Under Voltage Protection
- Frequency Protection
- Phase/Neg Sequence Protection

SECTIONALIZING/SWITCHING

- Remote and Local Loadbreak Switching
- Feeder Tie Switch
- Sectionalizer

AUTOMATION PLATFORM

- System reconfiguration
- Automatic transfers

CONTROL OPTIONS

- Standard control: Ingeteam INGEPAC™ PT5 Relay Control
- Optional control: SEL-651RA Recloser Control
- Standard control box: 564mm x 359mm x 797.5mm
- Optional control box: 450mm x 400mm x 350mm) available for radio and 40Ah battery.
- Available in either Mild Steel or Stainless Steel

CONTROL FEATURES

- Ensures seamless integration between controller and recloser device
- Supports the latest in communications technologies and protocols (DNP, IEC 61850, etc.)
- Provides standard security tools to ensure that device integration into new or existing SCADA, OMS or DMS is simple and secure



*Ingeteam INGEPAC™
PT5 Relay Control*



*SEL-651RA
Recloser Control*

AVAILABLE OPTIONS & ACCESSORIES

FRAMES

- Alley Arm, Cross Arm, or Substation

CABLE LENGTHS

- 10m - Standard
- 3m, 6m, 15m, 18.5m, and 21.5m available

LUGS

- Aerial Clamp Type (Cable Ranges: 35mm - 240mm²) - Standard
- NEMA 2 Hole
- NEMA 4 Hole

MISC.

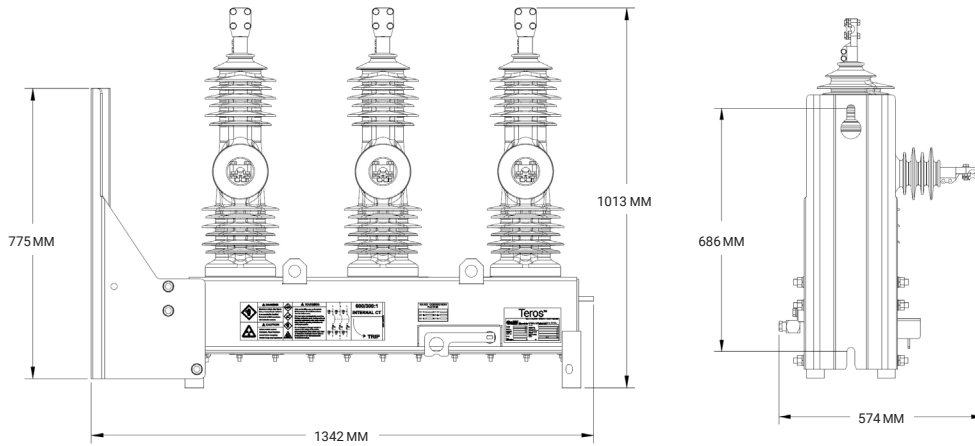
- Heaters and Radio Provisions
- 10mm Bird Guards
- Arrestor Bracket Provisions

ORDERING/CATALOG INFORMATION

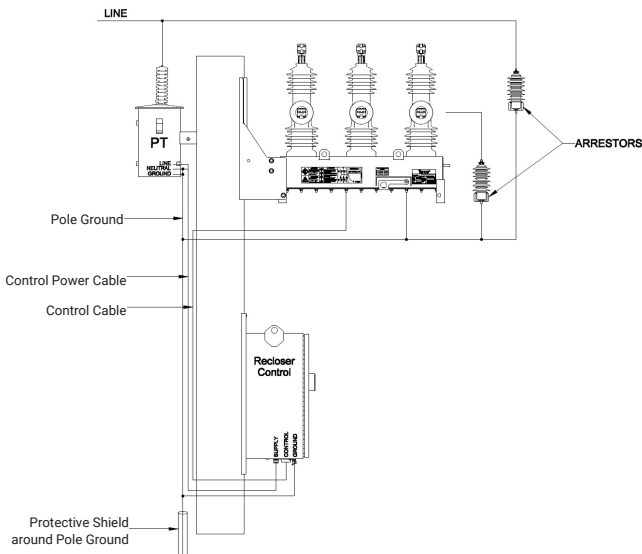
- TER-378-ER-15 for 15kV Class Recloser
- TER-388-ER-16 for 27kV Class Recloser

CONFIGURATIONS

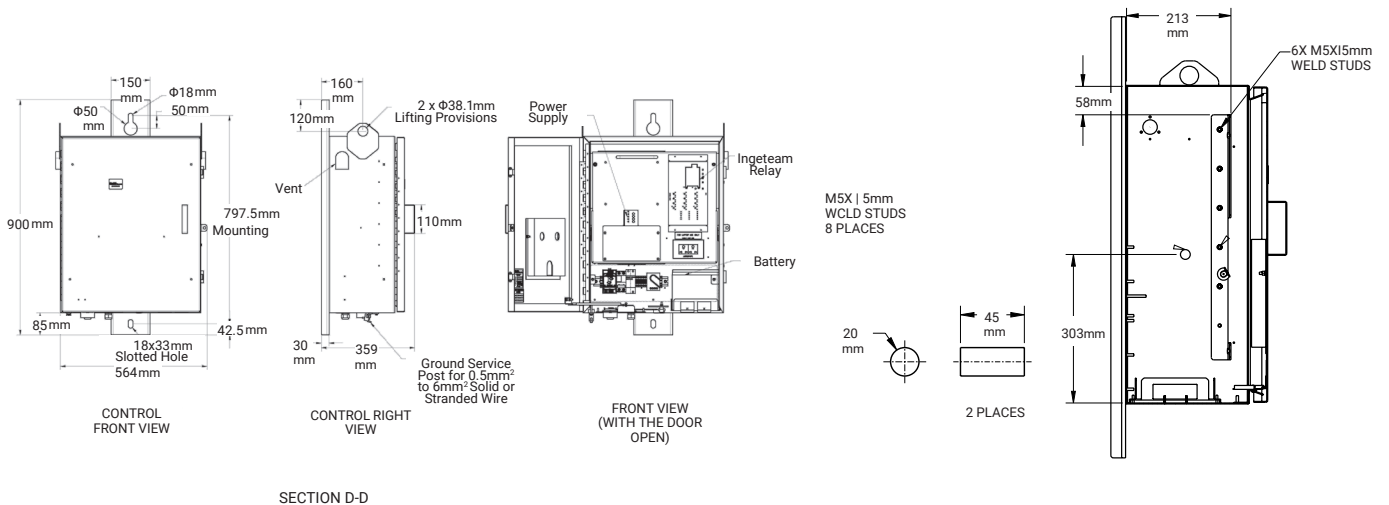
Alley-Arm Frame Standard



Center Pole Frame – Optional



Standard Control box



SECTION D-D

Dimensions are approximate. Do not use for construction. All dimensions shown are in mm.

Contact us today

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G&W Electric

Engineered to order. Built to last.

Since 1905, G&W Electric has been a leading provider of innovative power grid solutions including the latest in load and fault interrupting switches; reclosers; sensors; system protection equipment; power grid automation; transmission and distribution cable terminations; and joints and other cable accessories. G&W Electric is headquartered in Bolingbrook, Illinois, U.S.A., with manufacturing facilities and sales support in more than 100 countries, including Canada, Italy, China, Mexico, Brazil, India and Singapore. We help our customers meet their challenges and gain a competitive edge through a suite of advanced products and technical services.

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