

Rec25_AI_SUB Substation Recloser

Triple-Single or Three-Phase Gang Operated
With Hot-Dip Galvanized or Stainless Steel Mounting Kit

**5 YEAR
WARRANTY**

Compatible with SEL-651R and customized controls



Tavrida Electric solutions ensure reliable power system operation in more than 80 countries.



*shown with optional bracket for mounting external CTs

- 15kV and 27kV systems
- 800A continuous rated current
- x6 voltage and x3/x6 current sensors built in (Loop Scheme Ready)
- Magnetically actuated vacuum interrupters
- Tested to 30,000 CO operations at full load
- Maintenance free and light weight
- 5-year warranty

Tavrida Electric is a world-class manufacturer of vacuum interrupters, magnetic actuators, circuit breaker modules and automatic circuit reclosers. The Rec series module is a field proven, reliable and flexible system that can be used as a switch, circuit breaker, substation breaker, sectionalizer or distribution recloser. There are over 90,000 outdoor switching modules installed worldwide demonstrating unrivalled dependability in the most extreme environments.

The Rec series recloser is fully compatible with several recloser controls including the SEL-651R. The six (6) on-board voltage sensors allow the Rec series recloser to be installed in either a radial or loop scheme configuration. Radial installations can be quickly changed to a loop scheme configuration by simply reprogramming the control.



Basic Operating Parameters

Rated Data

Rated voltage (U_p), up to	15.5kV	27kV
Rated continuous current (I_p)	800A	
8-hour overload current	960A	
Rated power frequency withstand voltage (U_d), 1 min dry	60kV	
Rated power frequency withstand voltage (U_d), 10s wet	55kV	
Rated lightning impulse withstand voltage closed contacts/open contacts (peak) (U_p)	150/125kV	
Rated short-circuit breaking current (I_{sc})	16kA	12.5kA
Rated short-circuit making current, peak	41.6kA	32.5kA
Rated short-time withstand current, 4s (I_k)	16kA	12.5kA
Rated frequency	50/60Hz	

Mounting Anchoring Holes Distances for Foundation Pad

Hot-dip galvanized design ¹	549..604 mm x 1309..1329 mm
	218..935 mm x 1055..1329 mm
	950..970 mm x 456..1180 mm
Stainless Steel Design	819 mm x 819 mm
	with adapter (optional): 965 mm x 457 mm, 1219 mm x 558 mm

1 - Variable distances are provided by design of mounting holders.

Switching Performance

Mechanical life (CO cycles)	30,000
Operating cycles, rated current (CO cycles)	30,000
Electrical endurance, breaking current (O-CO cycles)	100
Closing time ¹	<40ms
Opening time ¹	<15ms
Interrupting time, for 50/60 Hz ¹	<25/23 ms
Rated operating sequence	O-0.2s-CO-1.5s-CO-2s-CO-2s-CO ²

1 - Switching module closing, opening and break times excluding control module recognition time.

2 - Fastest operating sequence when used with SEL-651R-2 Recloser Control. Subject to change when used with different controls.

Standards

International Standard	IEC 62271-100, IEC 62271-111
American Standard	IEEE C37.60

Other Data

Current Sensing	3/6 current transformers ¹
Voltage Sensing	6 Voltage Sensors
Main contact resistance (not more than)	95μOhm
Degree of protection	IP65
Weight	176 lbs. (80 kg)

1 - 600:1 A ratio is standard. 200:1 is available with gang-operated OSM25_AL_5.

Recloser components

Outdoor Switching Module

The outdoor switching module is designed for use as an automatic circuit recloser, a sectionalizer on overhead distribution lines, and as an outdoor switching module in distribution substation applications for voltages up to 27 kV.



Recloser control

The Tavrída Electric recloser is compatible with SEL-651R MRI control as well as with customized cabinets.



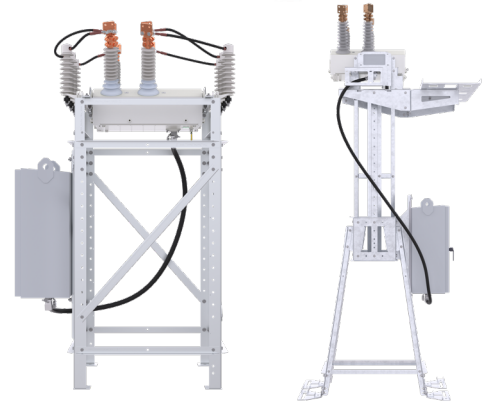
Umbilical cable

Connection between the switching module and the control cabinet is accomplished by a single umbilical cable which can be provided in multiple lengths.

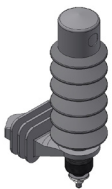


Mounting kit

Tavrída Electric offers hot-dip galvanized and stainless steel substation frame options with control cabinet mounting interface and bracket for mounting external current transformers (bracket is optional for stainless steel frame).



Optional components



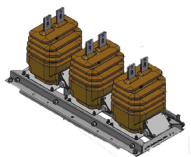
Surge arresters



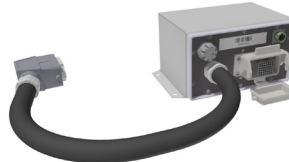
Wildlife covers



Two or four hole NEMA pads for primary connection

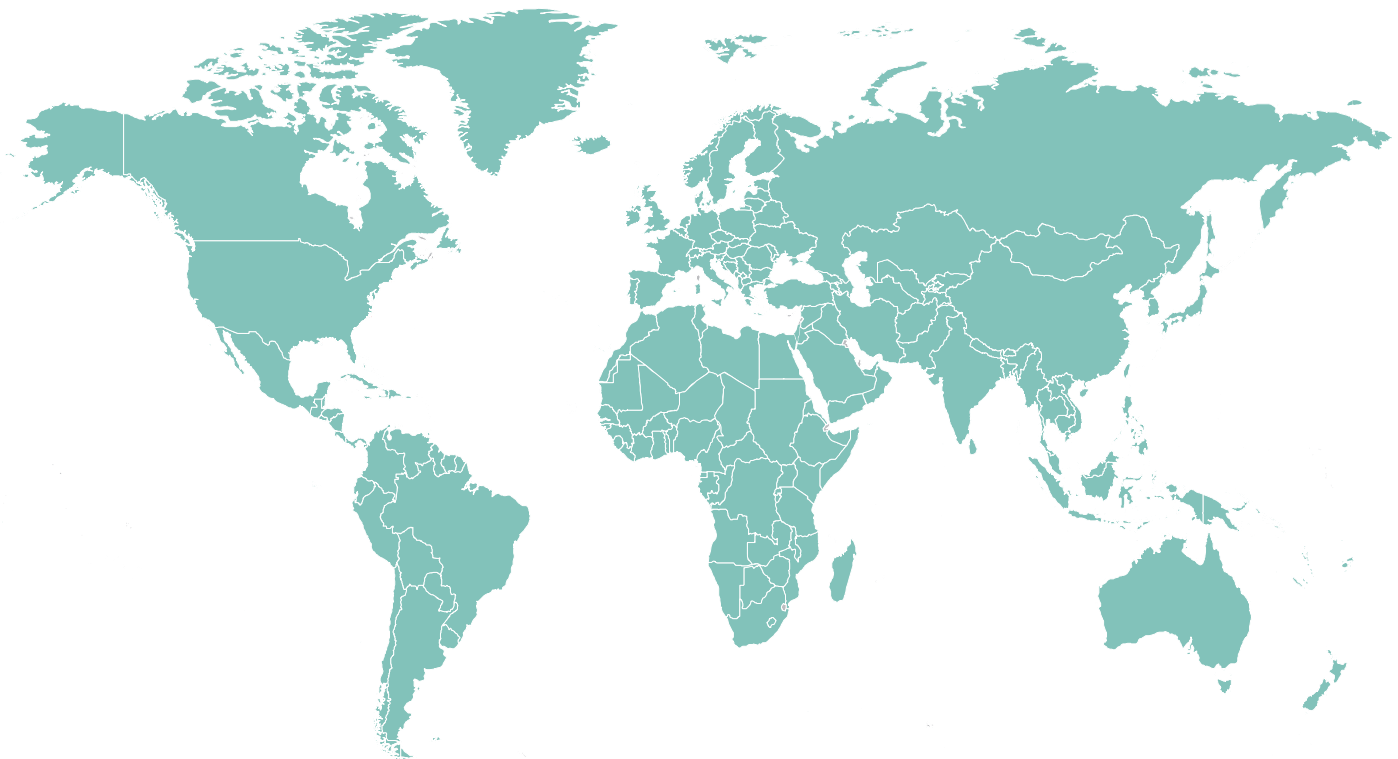


Current transformers mounting bracket (for hot-dip galvanized frame CT mounting bracket is included in the scope of supply)



Junction box providing variable CT ratio for OSM25_AL_5 (600:1, 200:1) and optional safe trip functionality.





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