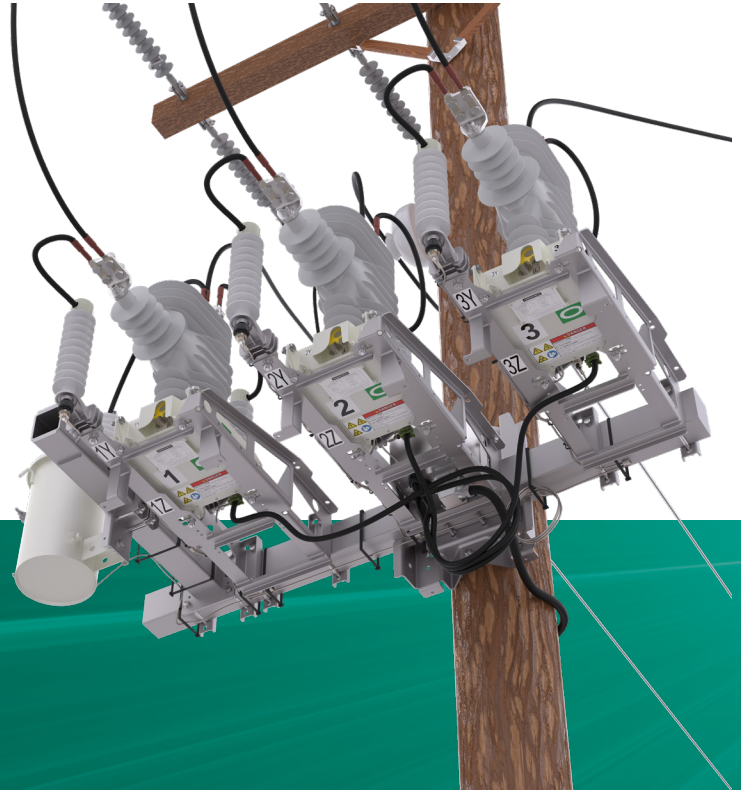


Rec35_Smart4_HDG Recloser

38 kV Triple-Single Design with Crossarm Mounting Kit

Compatible with SEL-651R and Beckwith M-7679 controls

**5 YEAR
WARRANTY**



The most compact 38kV recloser in the world!

- 1250A continuous rated current
- x6 voltage and x3 current sensors built in
- Fits perfect in normally open and sectionalizing applications
- Voltage sensors with 0.5% accuracy
- Magnetically actuated vacuum interrupters
- Tested to 30,000 CO operations at full load
- Maintenance free and light weight
- 5-year warranty
- Compatible with 42-pin MRI and 32-pin controls

Tavrida Electric and Magvatech are world-class manufacturers of vacuum interrupters, magnetic actuators, circuit breaker modules, and automatic circuit reclosers. The Rec35_Smart4_HDG 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.

The Rec35_Smart4_HDG series recloser is fully compatible with the SEL-651R recloser control. The six (6) on-board voltage sensors provide 0.5% accuracy across a broad temperature range. This allows the recloser to be installed in either a radial or loop scheme configuration. Radial installations can be quickly converted to a loop scheme simply by reprogramming the control.



Basic Operating Parameters

Rated Data	OSM35_Smart_4E(600.200_150_ALL)
Rated voltage (U_r), up to	38kV
Rated continuous current (I_r)	1250A ¹
Rated power frequency withstand voltage (U_d), 1 min dry	70kV
Rated power frequency withstand voltage (U_d), 10s wet	70kV
Rated lightning impulse withstand voltage (peak) – BIL (U_p)	170kV
Rated short-circuit breaking current (I_{sc})	16kA
Rated short-circuit making current, peak	41.2kA
Rated short-time withstand current, 4s (I_k)	16kA
Rated peak withstand current (I_p)	38kA
Rated frequency	50/60Hz

1 - When used with 600:1 CT ratio, 600A – when used with 200:1 CT ratio

Switching Performance

Mechanical life (CO cycles)	30,000
Operating cycles, rated current (CO cycles)	30,000
Electrical endurance, breaking current (CO cycles)	100
Closing time ¹	<60ms
Opening time ¹	<15ms
Break time ¹	<25ms
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

Other Data	OSM35_Smart_4E(600.200_150_ALL)
Current Sensing	3 built-in current transformers
	600:1, C100 200:1, C20
Voltage Sensing	6 built-in voltage sensors
Voltage measurement accuracy	+/-0.5%
Main contact resistance (not more than)	32μOhm
Degree of protection	IP65
Weight (only switching module)	212 lbs. (96 kg)
Temperature	-40 ... 131 °F (-40 ... +55 °C)

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 switch in distribution substation applications for voltages up to 38 kV.



Recloser Control

The Tavrida Electric recloser is compatible with SEL-651R (42-Pin (MRI) and 32-Pin control interface, Beckwith M7679 as well as custom controls.



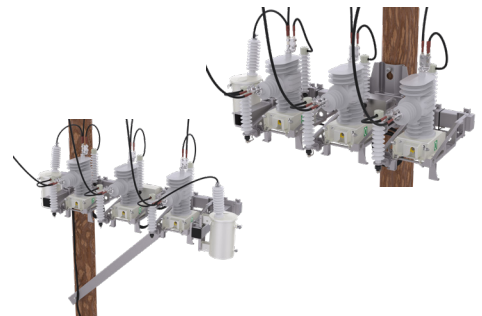
Junction Box with Umbilical Cable

Connection between the switching modules and the control cabinet is accomplished by a junction box with an umbilical cable which can be provided in multiple lengths.



Mounting Kit

Tavrida Electric offers a crossarm mounting kit with 6', 8' or 10' length options and a variety of accessories.



Other Components



Surge arresters



Four hole NEMA pads for primary connection



Auxiliary transformer, 2-hanger, single bushing, 120 VAC secondary, steel tank, with internal weak link and wildlife protection



Wildlife protective covers



[illegible]

E-Mail: info@tavrida-na.com