

Rec35_Smart4_HDG Recloser

38 kV Triple-Single Design with Crossarm Mounting Kit

Compatible with SEL-651R

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

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 $_{ m d}$), 10s wet	70kV	
Rated lightning impulse withstand voltage (peak) — BIL (U $_{ m p}$)	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 (lp)	38kA	
Rated frequency	50/60Hz	

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

Switching Performance

30,000	
30,000	
100	
<60ms	
<15ms	
<25ms	
0-0.2s-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	OSM35_Smart_4E(600.200_150_ALL) 3 built-in current transformers		
Current Sensing			
	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 switching module in distribution substation applications for voltages up to 38 kV.

Recloser Control

The Tavrida Electric recloser is compatible with SEL-651R MRI control.

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

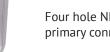
Tavrida Electric offers a crossarm mounting kit with $6^\prime,\,8^\prime$ or 10^\prime length option with variable accessories.

Other Components

Surge arresters



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



Four hole NEMA pads for primary connection

Wildlife protective covers



TAVRIDA ELEC



Certificates ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018

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If you would like to obtain more detailed information about our solutions or become one of our local partners, please feel free to contact us

NORTH AMERICA (USA)

Tavrida Electric North America (US) Inc.

2000 Tall Pines Dr. Suite 200 Largo, FL 33771 USA Phone: +1 (604) 540-6604 Fax: +1 (604) 540-6604 E-Mail: info@tavrida-na.com

NORTH AMERICA (CANADA)

Tavrida Electric North America Inc. 726 Chester Rd Delta, BC V3M 6J1 Canada Phone: +1 (866) 551-8362 Fax: +1 (604) 540-6604 E-Mail: info@tavrida-na.com