

Rec35_Smart4_HDG Recloser

38 kV Triple-Single Design with Crossarm Mounting Kit

Compatible with SEL-651R



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

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 is a world-class manufacturer 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 an accuracy of 0.5% across a broad temperature range. It allows the recloser to be installed in radial or loop scheme configuration. Radial installations can be quickly changed to a loop scheme configuration by simply reprogramming the control.



www.tavrida.com/tena Rec35_Smart4_HDG Recloser

Basic Operating Parameters

Rated Data	Smart4(100)	Smart4(600)	Smart4(1200)
Rated voltage (U _r), up to		38kV	
Rated continuous current (I _r)	100A	600A	1250A
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)	20kA		
Rated peak withstand current (Ip)	52kA		
Rated frequency	50/60Hz		
Mounting Anchoring Holes Distances for Foundat	ion Pad		
Hot-dip galvanized design ²	549604 mm x 13091329 mm		
	218935 mm x 10551329 mm		
	950970 mm x 4561180 mm		
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 time¹	<15ms		
Break time¹	<25ms		
Rated operating sequence	Refer to control manual		
Standards			
International Standard	IEC 62271-100, IEC 62271-111		
American Standard	IEEE C37.60		
Other Data	Smart4(100)	Smart4(600)	Smart4(1200)
Current Sensing —	3 built-in current transformers		
	100:1, C20	600:1, C100	1200:1, C100
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)	205 lbs. (95 kg)		
Temperature	-40 131 °F (-40 +55 °C)		
Switching module closing opening and break times excluding of	ontrol module recognitio	on time	

 $^{^{1}}$ Switching module closing, opening and break times excluding control module recognition time.

² Variable distances are provided by design of mounting holders



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.



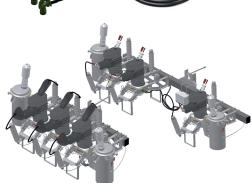
Junction Box with Umbilical Cable

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', 8' or 10' length option with variable 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



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



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