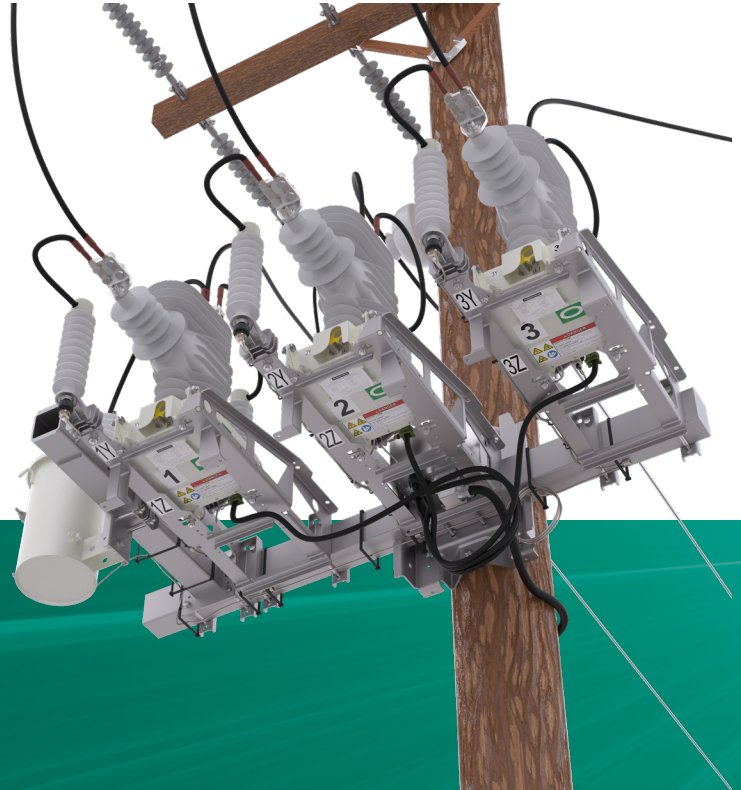


# Rec35\_Smart4\_HDG Recloser

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 interfaces

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 <sup>1</sup>
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 <sup>1</sup>	<60ms
Opening time <sup>1</sup>	<15ms
Break time <sup>1</sup>	<25ms
Rated operating sequence	O-0.2s-CO-1.5s-CO-2s-CO-2s-CO <sup>2</sup>

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 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



**TÜV NORD**

## CERTIFICATE

Management system as per  
ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby certifies as a result of the audit, assessment and verification activities according to ISO/IEC 17021:2015, that the organization

**MVT ELEKTRİK SAN. VE TİC. LTD. ŞTİ.**  
Ege Serbest Bölgesi, Zafar Şiş Mah., Defne Sok., No:3  
35410 Gaziantep, İsmir  
Turkey

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be monitored for conformity within the 3 year term of validity of the certificate.

Scope

**Automatic circuit breaker, switching modules, control module production and silicone rubber production and packaging and shipment of these products.**

Certificate Registration No. 44 128 2450001  
Audit Report No. TR 2014

*Mehmet Ay*

Certification Body  
at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH    Amn TSV 1    d5077 Essen    www.tuv-nord.com

**IAF** **DAS**  
DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 45001:2018

Valid from 2024-08-12  
Valid until 2027-08-11  
Initial certification 2024

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