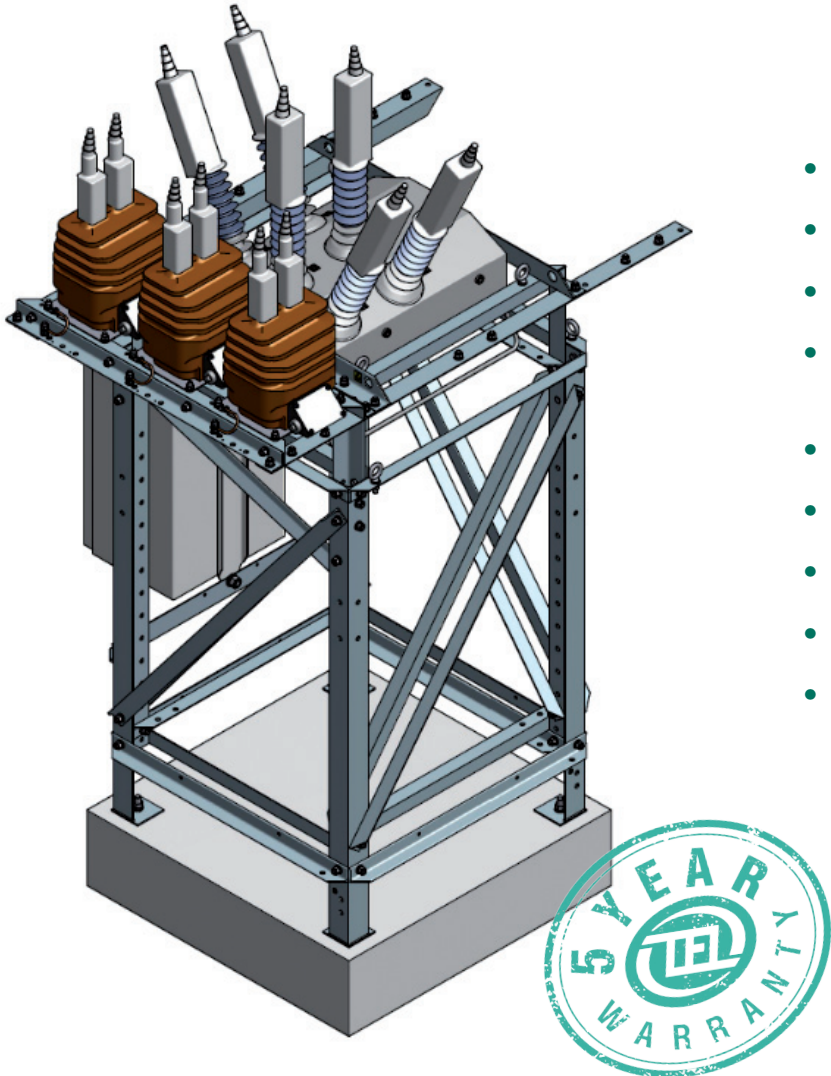


OSM_AL_1, 2 and 4 Series Reclosers for Substation Use

Substation Reclosers



- Three phase or single phase trip
- 15kV and 25kV systems
- Up to 800A
- Six (6) voltage and three (3) current sensors built in (Loop Scheme Ready)
- Magnetically actuated vacuum interrupters
- Adjustable substation frame
- Tested to 30,000 CO operations at full load
- Maintenance free and light weight
- 5-year warranty

Tavrída Electric is a world-class manufacturer of vacuum interrupters, magnetic actuators, circuit breaker modules and automatic circuit reclosers. The OSM Series is a field proven, reliable and flexible system that can be used as a switch, circuit breaker, substation breaker, sectionalizer or distribution recloser. With over 37,000 installations worldwide, the OSM Series has demonstrated unrivalled dependability in the most extreme environments.

The OSM Series substation recloser includes either a Tavrída RC_5 or SEL-651R recloser control. This series can also be used with an SEL-351R or SEL-351S control through a Tavrída supplied junction box. The six (6) on-board voltage sensors allow the OSM Series 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	OSM15_AI Series	OSM25_AI Series
Rated Data		
Rated voltage (U _r)	15.5kV	27kV
Rated current (I _r)	630A (800A ¹)	
Rated power frequency withstand voltage (U _d), 1 min dry	50kV	70kV ²
Rated power frequency withstand voltage (U _d), 10s wet	45kV	60kV ²
Rated lightning impulse withstand voltage (peak) — BIL (U _p)	110kV	150kV ²
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	
Switching Performance		
Mechanical life (CO cycles)	30,000	
Operating cycles, rated current (CO cycles)	30,000	
Operating cycles, rated short-circuit breaking current	200	
Closing time ³	<35ms	<35ms / <40ms
Opening time ³	<15ms	<15ms
Break time ³	<25ms	<28ms
Standards		
International Standard	IEC 62271-100, IEC 62271-111	
American Standard	IEEE C37.60	
Russian Standard	GOST R 52565-2006	
Chinese Standard	GB 1984-2003	
Other Data		
Current sensing	x3 Rogowski coils or x3 current transformers ³	
Voltage sensing	6 Voltage Sensors	
Main contact resistance (not more than)	85μ Ohm	95μ Ohm
Degree of protection	IP65	
Weight	<65kg (143 lbs)	<72kg (159 lbs)

¹ 800A overload.

² OSM closing, opening and break times excluding control module recognition time.

³ OSM_AI_1 series with on-board Rogowski coils for use with RC_5 controls. OSM_AI_2 / AI_4 series with current transformers for use with Schweitzer Engineering SEL-651R and 351S controls.