



OUTDOOR VACUUM CIRCUIT BREAKER (OVCB)

ULTIMATE SWITCHING RELIABILITY FOR A HASSLE-FREE CONNECTION TO A GRID

The Tavrída Electric OVCB module represents the result of extensive R&D efforts to provide outstanding current switching performance in outdoor applications. OVCB modules can be used as generation circuit breaker (small hydroelectric plants, solar power plants, and wind turbines) and substation circuit breaker controlled by an external relay.

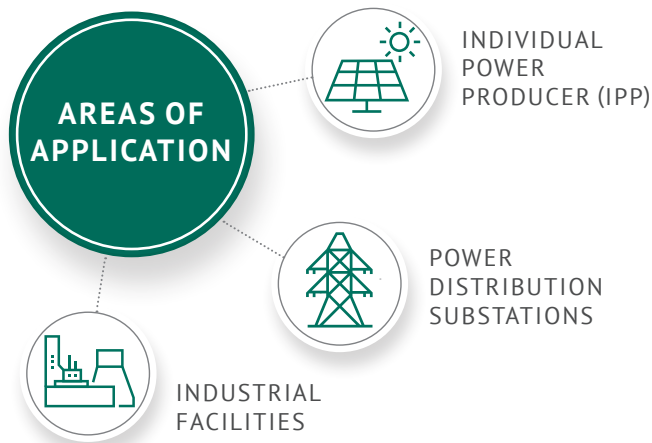
- Maintenance free design guarantees up to 30,000 rated current CO-cycles
- The innovative magnetic actuators in each pole linked by a synchronizing shaft eliminate the risk of partial tripping
- The most compact dimension and weight in the class ensure a small footprint and simplicity of installation
- IP65 rated corrosion-resistant tank and UV stable silicone bushings are suitable for the harshest operational environments
- All active electronics and surge arresters are located in a separate box for additional safety
- Field proven performance with over 55,000 outdoor installations worldwide



MOUNTING INTERFACE

The mounting kit is specifically designed to fit the most known outdoor substation arrangements. It is made of hot-dip galvanized steel and provides a highly stable frame.

- No welding required during assembly
- Variable installation height 1926–2884 mm
- Adjustable mounting interface dimensions
- Everything comes in a single package



CONTROL INTERFACE

The Outdoor Control Module (OCM) serves as a magnetic actuator driver and has a self-diagnostic system that monitors coil, power supply, and internal malfunctions. OCM allows to program tripping on the loss of auxiliary power and autoreclosing on auxiliary power restoration with configurable timings.

- Industrial type 7 pin IP 65 interface for breaker Close/Open binary commands and indication
- Inspection window to monitor Control module indication and low voltage surge arresters state



TECHNICAL PARAMETER	OVCB15	OVCB25
Rated maximum voltage (Ur)	15.5 kV	27 kV
Rated continuous current (Ir)	800 A	800 A
Rated short-circuit breaking current (Isc), 4 sec	16 kA	12.5 kA
Rated lightning impulse withstand voltage (peak) (Up)	110 kV	125 (150) kV*
Rated frequency (fr)	50/60 Hz	
Mechanical life (CO cycles)	30 000	
Electrical endurance, breaking current (CO cycles)	100	
Closing time	≤ 70 ms	
Opening time	≤ 35 ms	
Clearing time	≤ 45 ms	
Temperature range	-40...+55 °C	
Switching module (IP65 rated) weight	68 kg	72 kg
Tank material	Corrosion resistant aluminum alloy	
Supply voltage range	24-60V DC or 110-220V AC/DC	
Standby power consumption	≤ 7 W	

* Across the vacuum gap, value in brackets - closed contacts

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