

# ISM15\_Mono\_1S

Most compact magnetically actuated SF6-free breaker integrated with 3-position disconnect switch and grounding, and LEA voltage and CT current measuring system

**5 YEAR  
WARRANTY**



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

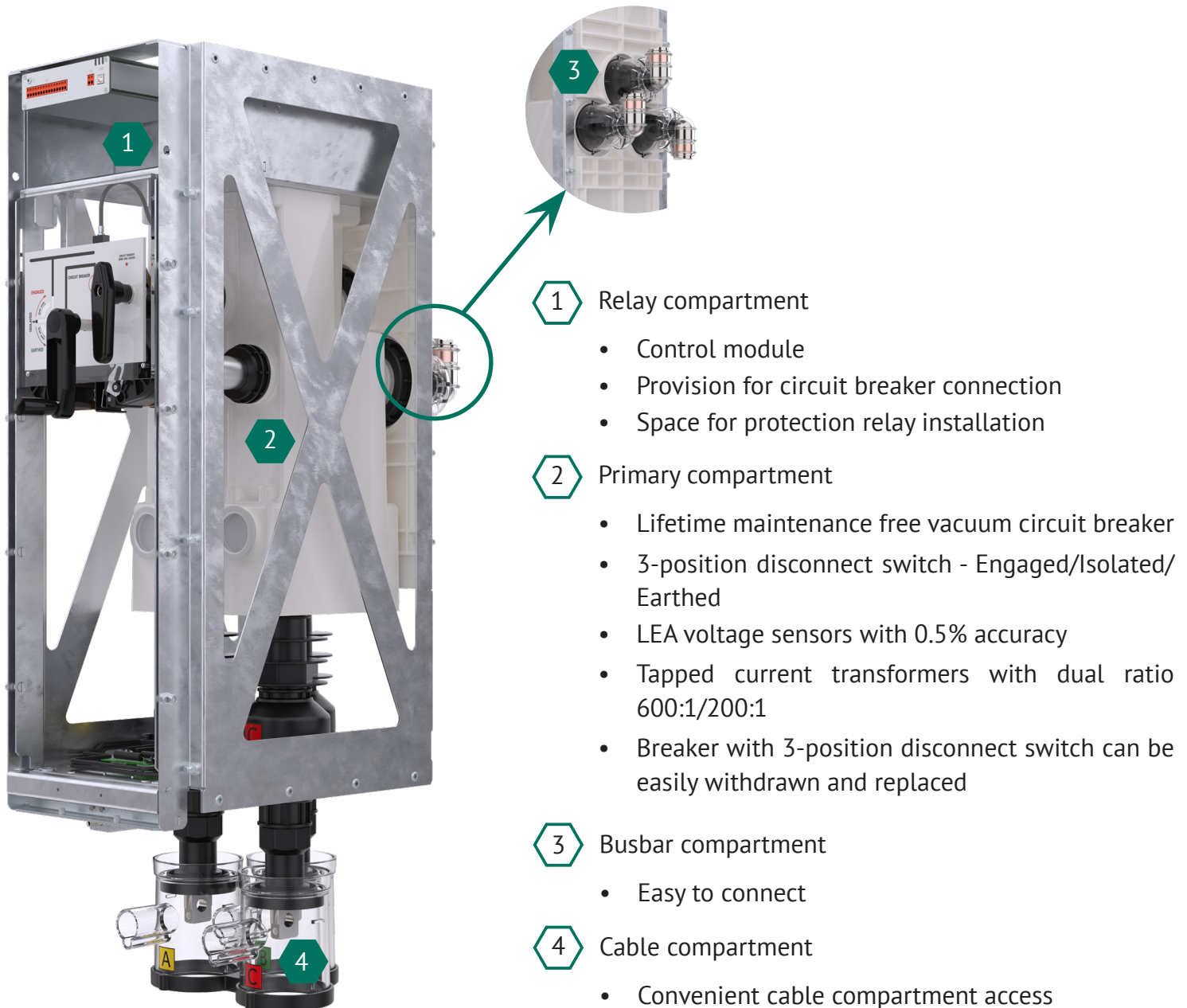


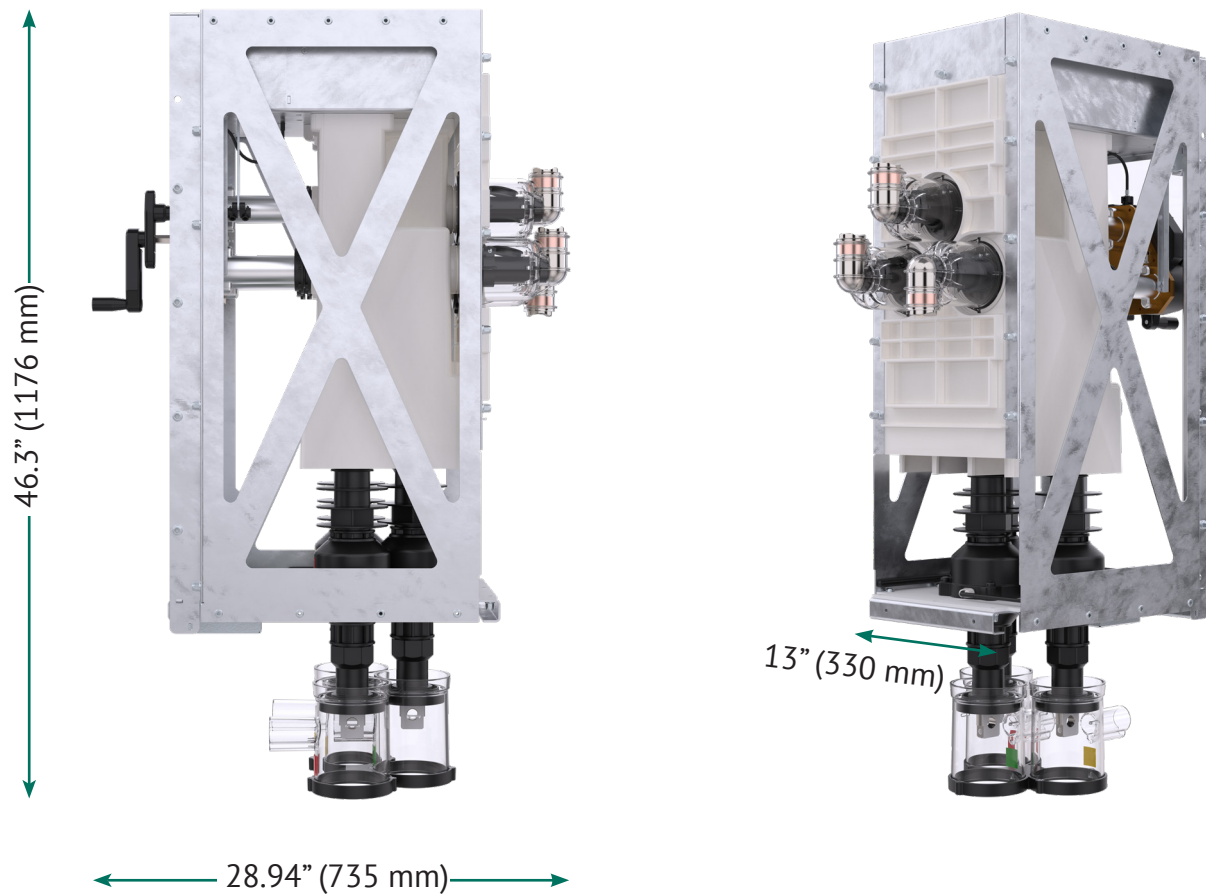
- 15 kV systems (95 kV BIL)
- 630 A continuous rated current
- 20 kA short circuit breaking current
- 30 000 CO operations at full load
- 25 CO operations at rated breaking current
- Maintenance free
- 5-year warranty

## Most Compact Integrated Solution

The philosophy behind ISM15\_Mono\_1S solution is to provide the most reliable and endurant solution for switchgear manufacturers which will also be very compact and ready to be embedded into any type of OEM-designed switchgear.

ISM15\_Mono\_1S solution is designed to provide all necessary functionality, including fast circuit breaker (opening time can be as low as 1.5 cycles) with 30000 CO cycles resource, visible disconnect and grounding device that does not require maintenance and has 2000 operations resource, and measurement system with LEA voltage sensors and current transformers.

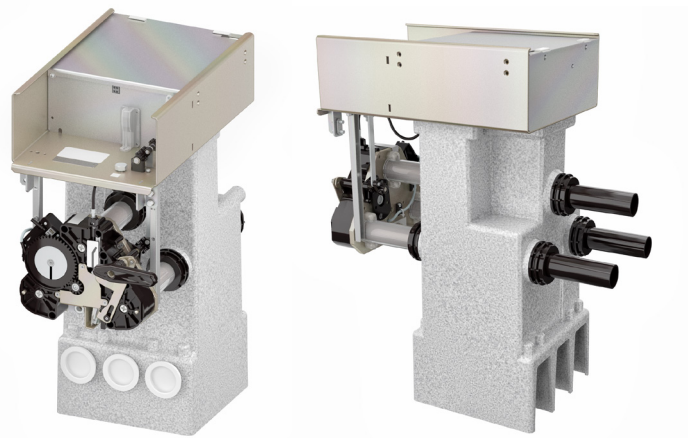




## Primary Compartment

In the heart of the ISM15\_Mono\_1S solution is the Tavrida Electric switching module. The switching module is extremely compact and includes:

- Vacuum circuit breaker;
- Three-position disconnect earthing switch;
- Disconnect switch operating handle;
- Main contacts position indicator;
- Disconnect earthing switch position indicator;
- Safety interlocking system.
- Unrivalled measurement system:  
LEA voltage sensors with  $\pm 0.5\%$  Accuracy  
Dual ratio CTs 600:1/200:1 with C50/C20 rating



## Main Technical Parameters

Type	ISM15_Mono_1S
Rated voltage (Ur), kV	15
Rated power frequency withstand voltage (Ud), 1 min, kV	42
Rated lightning impulse withstand voltage (peak) BIL (Up), kV	95
Rated continuous current (Ir), A	630
Rated short-circuit breaking current (Isc), kA	20
Rated short-time withstand current (Ik), kA	20
Rated duration of short-circuit (tk), main circuit, s	4
Rated duration of short-circuit (tk), earthing circuit, s	1
Rated frequency (fr), Hz	50/60
Mechanical endurance of circuit breaker, CO-cycles	30 000
Electrical endurance at rated load current, CO-cycles	30 000
Electrical endurance at rated SC breaking current, CO-cycles	25
Mechanical endurance of disconnect switch, Earthed-Isolated-Engaged cycles	2 000
Closing time, ms	< 30
Opening time, ms	< 10
Rated operating sequence	O – 0.3s – CO – 10s – CO
Altitude, m	2.000 <sup>1</sup>
Humidity, %	95
Temperature range	-40°F...+104°F (-40°C...+40°C)
Type of driving mechanism	Magnetic actuator
Net weight, lbs (kg)	193.12 (87.6)
Rated range of supply voltage, V	85-265 AC/DC or 19-72 DC

1 - Derating according to ANSI C37.60 applied above 1000 m.

**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](mailto: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](mailto:info@tavrida-na.com)