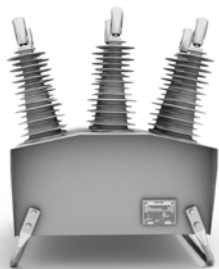


# OSM Recloser

## Technical Specification

| PART NUMBER                       | OSM15-12-630                          | OSM15-16-800                          | OSM27-12-800                          | OSM38-12-800                          | OSM38-16-800 <sup>4</sup>             |
|-----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Manufacturing Model               | 310                                   | 311/312/310 <sup>1,2</sup>            | 311/312/310 <sup>1,2</sup>            | 311/302/300 <sup>1,2</sup>            | 301/302/300 <sup>1,2</sup>            |
| Current Sensing                   | 3 x Current Transformers <sup>3</sup> | 3 x Current Transformers <sup>3</sup> | 3 x Current Transformers <sup>3</sup> | 3 x Current Transformers <sup>3</sup> | 3 x Current Transformers <sup>3</sup> |
| Voltage Sensing                   | 6 x Voltage Screens <sup>3</sup>      | 6 x Voltage Screens <sup>3</sup>      | 6 x Voltage Screens <sup>3</sup>      | 6 x Voltage Screens <sup>3</sup>      | 6 x Voltage Screens <sup>3</sup>      |
| Rated Maximum Voltage             | 15.5 kV                               | 15.5 kV                               | 27 kV                                 | 38 kV                                 | 38 kV                                 |
| Rated Continuous Current          | 630 A                                 | 800 A                                 | 800 A                                 | 800A                                  | 800 A                                 |
| Fault Make Capacity RMS           | 12.5 kA                               | 16 kA                                 | 12.5 kA                               | 12.5 kA                               | 16 kA                                 |
| Fault Make Capacity Peak          | 31.5 kA                               | 40 kA                                 | 31.5 kA                               | 31.5 kA                               | 40 kA                                 |
| Fault Break Capacity              | 12.5 kA                               | 16 kA                                 | 12.5 kA                               | 12.5 kA                               | 16 kA                                 |
| Mechanical / Full Load Operations | 10,000                                | 30,000                                | 30,000                                | 30,000                                | 30,000                                |
| Fault Break Capacity Operations   | 70                                    | 70                                    | 140                                   | 100                                   | 140                                   |
| Short Time Current Withstand      | 12.5 kA/3 secs                        | 16 kA/3 secs                          | 16 kA/3 secs                          | 12.5 kA/3 secs                        | 16 kA/3 secs                          |

### Switchgear Phase Variants



OSM THREE PHASE



OSM TWO PHASE



OSM SINGLE PHASE



OSM SINGLE TRIPLE

| <b>PART NUMBER</b>                                | <b>OSM15-12-630</b> | <b>OSM15-16-800</b> | <b>OSM27-12-800</b> | <b>OSM38-12-800</b> | <b>OSM38-16-800<sup>4</sup></b> |
|---|---------------------|---------------------|---------------------|---------------------|---------------------------------|
| Mainly Active Breaking Capacity                   | 630 A               | 800 A               | 800 A               | 800 A               | 800 A                           |
| Cable Charging Current                            | 10 A                | 25 A                | 25 A                | 40 A                | 40 A                            |
| Line Charging Current                             | 2 A                 | 5 A                 | 5 A                 | 5 A                 | 5 A                             |
| Impulse Withstand Phase to Earth & Phase to Phase | 110 kV              | 110 kV              | 150 kV              | 195 kV              | 200 kV                          |
| Impulse Across the Interrupter                    | 110 kV              | 110 kV              | 150 kV              | 170 kV              | 170 kV                          |
| Power Frequency Withstand Phase to Earth (Dry)    | 50 kV               | 50 kV               | 60 kV               | 70 kV               | 70 kV                           |
| Power Frequency Across the Interrupter            | 50 kV               | 50 kV               | 60 kV               | 70 kV               | 70 kV                           |
| Ambient Temperature <sup>5</sup>                  | -40°C to +55°C      | -40°C to +55°C      | -40°C to +55°C      | -40°C to +55°C      | -40°C to +55°C                  |
| Humidity  | 0-100%              | 0-100%              | 0-100%              | 0-100%              | 0-100%                          |
| Altitude <sup>4</sup>                             | 3000 m              | 3000 m              | 3000 m              | 3000 m              | 3000 m                          |
| Weight of the Tank (Three Phase)                  | 100 kg              | 100 kg              | 109 kg              | 150 kg              | 150 kg                          |

1. A Switchgear model with matched CTs to provide 0.2A SEF sensitivity, is available for all 3 phase and 2 phase tanks.
2. OSM15-16-800-311, OSM27-12-800-311, OSM38-12-800-301, OSM38-16-800-301 (Single Phase Autorecloser) 1 x Current Transformers, 2x Voltage Screens, OSM15-16-800-312, OSM27-12-800-312, OSM38-12-800-302, OSM38-16-800-302 ( Two Phase Autorecloser) 2 x Current Transformers, 4 x Voltage Screens
3. OSM38-16-800 tested at 40.5kV for interruption
4. Altitudes above 1000m should be corrected in accordance with ANSI C37.60-2012
5. A -600 Celsius build option is available