CGMCOSMOS
Fully gas insulated modular and compact (RMU) system

Up to 24 kV
Up to 27 kV

IEC Standards
ANSI / IEEE Standards

Reliable innovation. Personal solutions.
STANDARDS
IEC
IEC 62271-1
IEC 62271-200
IEC 62271-100
IEC 62271-102
IEC 62271-105
IEC 62271-103
IEC 60529
IEC 62271-206

ANSI / IEEE
IEEE Std C37.74
IEEE Std C37.20.3
IEEE Std 1247
IEEE Std C37.123
IEEE Std C37.20.4
IEEE Std C37.04
IEEE Std C37.06
IEEE Std C37.09
IEEE Std C37.20.7

Others: SANS, HN, GB, SDMS,

TECHNICAL DATA
General
Rated values: 12-17.5-24-27 kV
1200-630 A
16-20-21-25 kA 1-3 s
50 / 60 Hz

Metal enclosed, single busbar
Indoor use up to 2000* m altitude

Ambient T:
Standard : -5°C to +40°C*
Extended: -30°C to +55°C*

Loss of service continuity: LSC 2B
Partition class: PM
(*) Other conditions under consultation

IEC Standards
Rated voltages: up to 24 kV
Internal arc class
IAC AFL(R*) 21-25 kA 1 s
(*) R with rear chimney
(*)(2) Consult availability

Functions:
L, P, V, S, RC, RB, R2C, M, 2LP, 2LV, 2L, 3LP, 2L2P, 3L2P, RLP

ANSI / IEEE Standards
Rated voltage: up to 27 kV
Internal arc qualified: 21 kA 1 s

Functions:
L, P, V, S, RB, RC, R2C

SAFETY
» Internal arc tested (16-21-25 kA 1s)
» All live components are inside a hermetically sealed gas tank
» Mechanical / electrical interlocks to prevent unsafe operations
» Switch position, voltage presence and acoustic alarm indicators

RELIABILITY
» Fully insulated & sealed for life
» Immersion tested for 24 hours
» 100% routine tested at factory

EFFICIENCY
» Modular design extensible to both sides thanks to ORMALINK
» Mechanism motorization without interrupting the supply
» Easy frontal access to install and to test MV cables and fuses
» Small size and light weight

SUSTAINABILITY
» Continuous reduction in use of greenhouse gases
» End-of-life management and re-cycling
» Use of highly recyclable material
» Self-powered protection relays

CONTINUOUS INNOVATION
» Modules operating in -30 ºC
» New metering cubicles
» Evolution in driving mechanisms
» Integrated in cubicle own protection and automation units
» Smart grid ready system
» Voltage and current sensors
» Preventive cable fault diagnosis
» Partial discharge (PD) detection for network diagnosis

The first CGMCOSMOS was launched in 2000, as the most flexible modular and compact ring main unit (RMU) range for secondary distribution networks up to 24 kV.

Since then, CGMCOSMOS system has been continuously evolving into a more extended range with higher ratings based on our customers’ demands.

CGMCOSMOS system has already been integrated into several smart grid applications. Currently more than 350,000 CGMCOSMOS functional units have been in service in more than 60 countries.