

neoPRIME[®]

Primary Distribution

Overview

neoPRIME is a new intelligent Gas-Insulated Switchgear (GIS) for primary distribution networks up to 36 kV, integrating advanced protection, control and condition monitoring functionalities for modern smart grid applications. It offers a compact and modular design with a reduced footprint and enhanced environmental sustainability.

The conventional use of SF₆ as an insulating medium is replaced by dry air, ensuring compliance with stringent regulatory requirements while maintaining the required dielectric, thermal and switching performance.

Applicable International Standards

IEC 62271-1, -100, -102, -200

Installation

Ambient temperature	-5 °C to 40 °C
Relative humidity	≤ 95 %
Altitude	≤ 1000 m
Installation type	Indoor

Ratings

Nominal voltage	36 kV
Power frequency withstand voltage 50/60 Hz -1 min	70 kV
Lightning impulse withstand voltage	170 kV

Nominal current	
Busbar	Up to 2500 A
Feeder current	Up to 2000 A

Short time withstand current	31.5 kA (3 s)
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Peak withstand current	82 kA
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Frequency	50 / 60 Hz
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Internal Arc (IAC)	31.5 kA (1 s)
Type of accessibility	A - FLR

Protection Index	IP67 (Sealed Compartment) IP3X (MV & LV Compartment)
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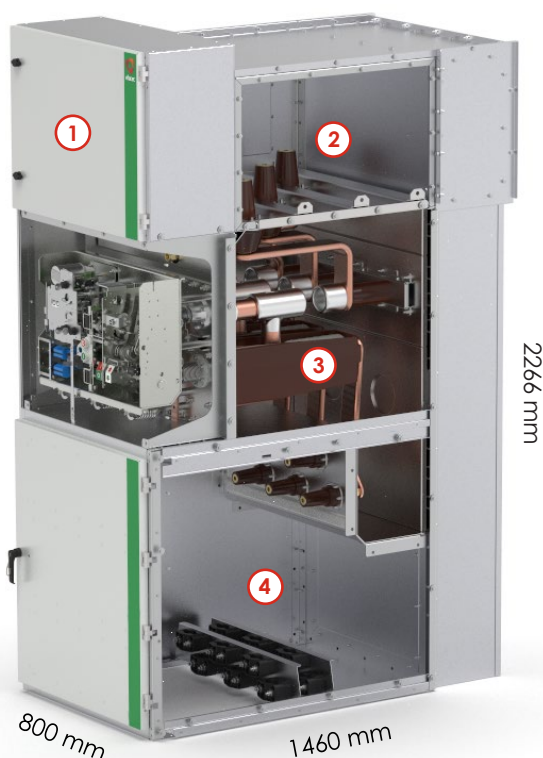


Functions & Design

- SF₆-free insulation system based on dry air
- Hermetically sealed primary circuit
- Solid-insulated busbar system
- Compact, lightweight and high-density design
- Vacuum interrupter switching technology
- Easy installation and future network expansion
- Integrated voltage and current sensors (optional)
- Automation controllers (optional)

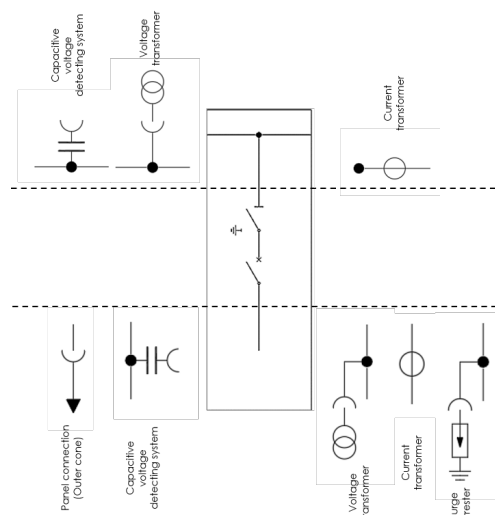
Architecture & Dimensions

The switchgear features a sealed, dry air-filled tank that houses the primary switching devices.



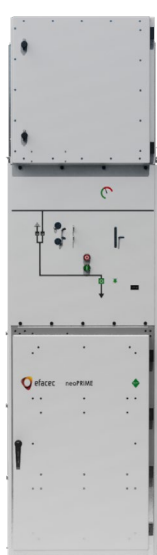
DIMENSIONS

In (A)	Width (mm)	Height (mm)	Depth (mm)
1250	600	2266	1460
2000	800		



MAIN COMPONENTS

1. Low Voltage Compartment
2. Busbar Compartment
3. Switching Device Compartment
4. Cable Compartment



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