



TYPICAL APPLICATIONS

- Commercial & Industrial Sites
- Utility Grids
- Renewable Energy Systems
- Critical Infrastructure

STANDARD FEATURES

- HV Bushings (Porcelain or Dead Front)
- LV Bushings (Molded Epoxy or Porcelain with NEMA Spades)
- Off-Circuit Tap Changer
- Pressure Relief Valve
- Lifting Lugs, Grounding Pads, Drain Valves & Sampling Device
- Liquid Level Gauge, Liquid Temperature Gauge
- Pressure Vacuum Gauge
- Tank Base for Skidding or Rolling

OPTIONAL FEATURES

- KNAN Cooling (Ester Fluid)
- Single and Dual Temperature kVA Ratings (55°C, 55/65°C, 55/75°C, 65/75°C, 75°C)
- Overcurrent and/or Overvoltage Protection
- Control Box (NEMA 4, 4X, 7)
- Forced-Air Control Package
- N2 Preservation System
- Sudden Pressure Relay
- Pressure Vacuum Bleeder Valve
- Winding Temperature Indicator
- Detachable Radiators w/ Valves
- Electrostatic Shield
- Dual Low Voltage Design
- Anti-Corrosion Coating
- Adaptable to Special Environments

WARRANTY

- 1 Year Standard

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OPEN SUBSTATION TRANSFORMERS

Technical Specifications

General Characteristics	
Item	Specification
Applicable Standards	IEEE C57.12.36 - 2017
Altitude	≤ 1000 m (3300 ft)
Max Ambient Temperature	40°C (104°F)
K-Factor*	1
Environment	Outdoor

Electrical Characteristics	
Item	Specification
Number of Phases	3
Rated Power (kVA)	500 to 20000
HV Rated Voltage (V)	≤ 69000
HV Taps (%)*	± 2 x 2.5
Frequency (Hz)	60
Vector Group*	Dyn1

*Other Configurations Upon Request

Construction Characteristics	
Item	Specification
Bushings Assembly	Cover Mounted
Oil Preservation System	Sealed Tank with Air Cushion
Insulating Liquid	Mineral Oil
Cooling Method	ONAN
Oil Temperature Rise	60°C (140°F)
Winding Temperature Rise	65°C (149°F)
Corrosion Category	C4
Winding Material	Aluminum/Copper
Insulation Thermal Class	105°C (221°F)

