

# 600kVA till 25MVA Transformer Technologies



**GERMAREL GMBH**

# Technical Advantages of Transformer

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## General Specifications

Transformer Type	Distribution Transformer
Installation	Outdoor
Applied Standard & Specification	IEC 60076-1 / --
Rated Power (kVA)	1500
Cooling Method	ONAN
High Voltage (kV)	24.9
Tapping Rating Type	Off-Load
High Voltage Tappings	+2 x 2.5% ; -2 x 2.5%
Low Voltage (kV)	0.4
High Voltage Insulation Level (U m /U AC /U LI ) (kV)	IEC-36/70/170
Low Voltage Insulation Level (U m / U AC / U LI ) (kV)	IEC-1.1/3/-
Frequency (Hz)	50
Vector Group	Dy5
Number Of Phases	3
Max. Ambient Temperature (°C)	40
Max. Temperature Rise (oil / winding) (K)	60/65
Max Altitude Above Sea Level (m)	4000
Permissible Short Circuit Duration (s)	3.0

## Guaranteed Values

Impedance Voltage (%)	(Ref. Sic.: 75)	6.0 (±%10.0 Tolerance)
No Load Losses (W)		1450 (+%15 Tolerance)
Load Losses (W)	(Ref. Sic.: 75)	18800 (+%15 Tolerance)
Total Losses (W)		19900 (+%10 Tolerance)

## Structural Specifications

High Voltage Winding Conductor Material	CU
Low Voltage Winding Conductor Material	CU
Type of Oil	Inhibited Mineral Oil
Tank Type	Hermetic / Corrugated Walls

## Dimensions and Weight

Length / Width / Height (mm)	2420/1550/1970
Transformer Weight (kg)	3960
Active Part Weight (kg)	2170
Oil Weight (kg)	910

## Connection Terminals

High Voltage	3x30 NF 250 A
Low Voltage	4xDT 2000 A

## Accessories

LV Bushing Insulator Type: Porcelain    HV Bushing Insulator Type: Porcelain    Tap Changer Model: Off-Load/Delta  
Hermetic Protection Relay: DMCR    Pressure Relief Device    Terminal Box    Bidirectional Rollers

\* Weights and dimensions may be subject to changes.

\*\* Tolerances for the losses and impedance are according to IEC 60076-1

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