

600kVA till 25MVA Transformer Technologies



GERMAREL GMBH

Technical Advantages of Transformer

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|----------|-------------|
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| Doc No : | T3 15060014 |

General Specifications

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|--|--------------------------|
| Transformer Type | Distribution Transformer |
| Installation | Outdoor |
| Applied Standard & Specification | IEC 60076-1 / -- |
| Rated Power (kVA) | 1000 |
| 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) | | 970 (+%15 Tolerance) |
| Load Losses (W) | (Ref. Sic.: 75) | 12200 (+%15 Tolerance) |
| Total Losses (W) | | 13400 (+%10 Tolerance) |

Structural Specifications

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|---|-----------------------------|
| 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) | 3060 |
| Active Part Weight (kg) | 1680 |
| Oil Weight (kg) | 630 |

Connection Terminals

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|--------------|---------------|
| 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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