

# Three-Phase Distribution Transformer

This high-pressure transformer utilizes advanced analysis software for core and winding design. It features superior process equipment and efficient manufacturing for small volume, light weight, and low loss.



## ADDITIONAL IMAGES



## Overview

### High-Performance Three-Phase Distribution Transformer

This high-pressure distribution transformer is engineered using advanced analysis software to optimize the core, winding, and fuel tank design. It features a compact, lightweight construction characterized by low loss, low noise, and minimal partial discharge for superior operational efficiency. Designed for reliability and environmental protection, it offers easy installation and maintenance to effectively reduce long-term running costs for power distribution networks.

## Core Performance

### Performance Highlights

**120 KV**

Max High Voltage

**63000 kVA**

Max Capacity

**11 KV**

Max Low Voltage

## Technical Configuration

| Capacity | Voltage Combination(KV)      |                            |                          | Connection symbol | Loss         |              |                 | Short Circuit Impedance | Weight(KG) |       |       | Dimensions(mm) |      |      | Track Gauge(mm) |
|----------|------------------------------|----------------------------|--------------------------|-------------------|--------------|--------------|-----------------|-------------------------|------------|-------|-------|----------------|------|------|-----------------|
|          | High Voltage                 | High Voltage Tapping range | Low Voltage              |                   | No-load loss | On-load loss | No-load Current |                         | Body       | Oil   | Total | L              | W    | H    |                 |
| 6300     | 63<br>66<br>69<br>110<br>120 | ±8x1.25%                   | 6.3<br>6.6<br>10.5<br>11 | Ynd11             | 9            | 34           | 0.5             | 10.5                    | 11430      | 4610  | 21960 | 4210           | 4050 | 4060 | 1430x1430       |
| 8000     |                              |                            |                          |                   | 11           | 40.4         | 0.5             |                         | 13350      | 5230  | 25800 | 4450           | 4300 | 4220 | 1430x1430       |
| 10000    |                              |                            |                          |                   | 13.2         | 47.6         | 0.45            |                         | 14500      | 5780  | 26900 | 4490           | 4450 | 4350 | 1430x1430       |
| 12500    |                              |                            |                          |                   | 15.6         | 56.5         | 0.45            |                         | 16102      | 6400  | 29900 | 4810           | 4500 | 4690 | 1430x1430       |
| 16000    |                              |                            |                          |                   | 17           | 77           | 0.4             |                         | 18100      | 6240  | 32300 | 5490           | 4240 | 4570 | 2000x1430       |
| 20000    |                              |                            |                          |                   | 22           | 91.5         | 0.4             |                         | 20250      | 7590  | 36070 | 5570           | 4300 | 4810 | 2000x1430       |
| 25000    |                              |                            |                          |                   | 26           | 110.5        | 0.35            |                         | 21700      | 7560  | 38310 | 5480           | 4620 | 5010 | 2000x1430       |
| 31500    |                              |                            |                          |                   | 30           | 133.2        | 0.35            |                         | 26100      | 8800  | 42150 | 5630           | 4500 | 5100 | 2000x1430       |
| 40000    |                              |                            |                          |                   | 36           | 156.6        | 0.3             |                         | 28500      | 10800 | 51200 | 5970           | 4760 | 5240 | 2000x1430       |
| 50000    |                              |                            |                          |                   | 44           | 194.4        | 0.25            |                         | 34500      | 10500 | 52890 | 6210           | 4850 | 6100 | 2000x1430       |
| 63000    |                              |                            |                          |                   | 57           | 234          | 0.25            |                         | 39900      | 13800 | 68640 | 6800           | 4520 | 5880 | 2000x1430       |

Comprehensive technical parameters including voltage combinations, loss characteristics, and physical dimensions for various transformer capacities.

## Voltage & Connection

| High Voltage (KV)    | Tapping Range | Low Voltage (KV)   | Connection Symbol |
|----------------------|---------------|--------------------|-------------------|
| 63, 66, 69, 110, 120 | ±8x1.25%      | 6.3, 6.6, 10.5, 11 | Ynd11             |

## Detailed Specifications

### Model Capacity and Loss Data

| Capacity (kVA) | No-load Loss (kW) | On-load Loss (kW) | No-load Current (%) |
|----------------|-------------------|-------------------|---------------------|
| 6300           | 9                 | 34                | 0.5                 |
| 10000          | 13.2              | 47.6              | 0.45                |
| 16000          | 17                | 77                | 0.4                 |
| 31500          | 30                | 133.2             | 0.35                |
| 63000          | 57                | 234               | 0.25                |

## Physical Characteristics

### Weight and Dimensions (63000 kVA Model)

- Body Weight: 39,900 kg
- Oil Weight: 13,800 kg
- Total Weight: 68,640 kg
- Length (L): 6,800 mm
- Width (W): 4,520 mm
- Height (H): 5,880 mm
- Track Gauge: 2000 x 1430 mm

## Design Features

|                           |   |
|---------------------------|---|
| Key Features              | Low Loss, Low Noise, Low Partial Discharge, Energy Conserving, Environmental Protection, Small Volume, Light Weight |
| Maintenance & Reliability | Yes   |