



Single-Phase Pole-Mounted Distribution Transformer

Technical Specifications

Rating	15 – 333 KVA
Type	Pole-Mounted Distribution Transformer
No. of Phases	1
Frequency	60 Hz
Primary Voltage	25 kV or 34.5 kV
Secondary Voltage	120/240/480 V
Tapping Range	±2 x 2.5% on HV-Side
Winding Material	Aluminum or Copper
Core Material	Grain Oriented Silicon Steel Sheet
Impedance	1.5 – 6.0 %
Efficiency	Meets DOE Efficiency Standard
Cooling Type	ONAN or KNAN
Average Winding Rise	55 °C, 55/65 °C, 65 °C
Fluid Type	Non-PCB Mineral Oil / FR3 Biodegradable / Silicone Oil
Tap Changer	De-Energized Tap Changer (DETC)
IEEE Standards	C57.12.00, C57.12.20, C57.12.31, C57.12.35, C57.12.90, C57. 91 and C57.154
NEMA Standard	NEMA TR 1
Tank Coating	IEEE Std C57.12.31-2010
Certification	UL Listed



MPS Testing & Standards

We have invested in some of the most advanced testing equipment in the industry. We offer a comprehensive range of testing compliant with the latest ANSI, IEEE*, and NEMA standards.

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| <ul style="list-style-type: none"> Leak Test Polarity and Phase Relation Resistance Measurements No Load Loss and Excitation Current | <ul style="list-style-type: none"> Full-wave Impulse Testing Ratio Test Induced and Applied Potential Load Loss and Impedance Voltage |
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* IEEE C57.12.00 & IEEE C57.12.90 (Liquid-Immersed)

Accessories

• Temperature Gauge	• Lifting Lugs	• Liquid Level Gauge	• Current Limiting Fuse
• Pressure Vacuum Gauge	• Pressure Relief Valve	• Drain/Sampling Valve	• Low Voltage Circuit Breaker
• Externally-operable tap changer switches	• Protective Link	• Surge Arrester	• Aluminum Nameplate

Approximate Transformer Dimensions

Rating (KVA)	Height (in)	Width (in)	Depth (in)	Tank Diameter (in)	Approx. Weight (lbs.)
15	39	21	24	15.25	290
25	42	22	25	15.25	369
37.5	42	24	27	17.5	484
50	42	26	29	20	605
75	49	26	31	20	797
100	52	28	33	22	1014
167	57	36	37	24	1555
250	58	40	40	27	2023
333	62	43	41	27	2379

* The measurements and weights are for reference only. For exact dimensions, please get in touch with MPS.

Product Overview

Meta Power Solutions' single-phase pole-mounted transformers are critical components in power distribution networks. They are made of premium materials and typically support residential, commercial, and industrial loads in cities and rural areas. They are filled with sustainable and biodegradable dielectric fluid, which offers excellent fire protection and a longer lifespan.

MPS offers a comprehensive line of single-phase pole-mounted transformers and associated components. Our entire range results from our unique research, development, and manufacturing, making us exceptional in the industry. As a result, we have gained extensive experience in every aspect of pole-mounted transformer technology. Customers can count on our products' quality and reliability.

Applications

MPS offers single-phase pole-mounted distribution transformers engineered for residential overhead distribution loads. They are also appropriate for industrial lighting, light commercial loads, and various power applications. These transformers are designed to meet the application requirements typically found on electric utility distribution systems.

Each unit is manufactured in compliance with IEEE, ANSI, and NEMA standards. The transformers are available with three different fluids: mineral oil, silicone transformer oil, or less flammable seed oil. In general, pole-mounted transformers are equipped with de-energized tap changer (DETC).

Transformer Features

MPS pole-mounted transformers come in a single-phase configuration with a voltage rating of 25 – 34.5 KV on the primary side and 120 - 480 V on the secondary side. The unit's cores are made from Grain Oriented Silicon Steel using state-of-the-art technology. Our single-phase pole-mounted transformers are highly energy efficient with lower heat emissions, resulting in fewer cooling requirements.

Benefits

Our transformers are made of premium materials and typically support residential, commercial, and industrial loads in cities and rural areas. They are filled with sustainable and biodegradable dielectric fluid, which offers excellent fire protection and a longer lifespan.

MPS single-phase pole mounted transformers provide owners with substantial energy savings and offer environmental benefits. Higher efficiency extends the transformer's lifespan and turns into significant cost savings in the form of lower energy bills and reduced ownership costs. Our single-phase pole-mounted distribution transformers meet current efficiency standards for the United States and Canada.

MPS Transformers are low-noise, energy-efficient, pole-mounted distribution transformers. Tailored for residential, industrial, and commercial applications, this is the efficient power supply for your application. They feature aluminum or copper windings and have customizable input/output voltages. For more information or advice on your transformer project, please get in touch with us.