



Three-Phase Pad-Mounted Transformers



Prolec GE offers a complete line of liquid-filled Three-Phase Pad-Mounted distribution transformers that meet applicable ANSI®/IEEE® standards.

With high voltages up to 34.5 kV and ratings up to 5,000 kVA (ONAN), Prolec GE compartmental-type Three Phase Pad-Mounted Commercial Transformers are designed for outdoor installation on a concrete pad and provide underground power distribution to commercial, industrial and institutional loads.

High-grade materials, combined with sophisticated engineering design systems, are key elements of a transformer that will deliver years of highly reliable service.

Standard Features

- 60 Hz operation.
- 65°C average winding rise.
- Radial & loop feed arrangements.
- Dead and live front type of HV terminals.
- HV BIL 45 – 150 kV (Dead Front) 200 kV (Live Front).
- LV BIL 30 – 60 kV.
- Three-point latching of low-voltage door.
- High-voltage door, which can be opened only after the low-voltage door is opened.
- Rigid steel partition.
- Transformer tank welded from cover to base.
- Permanent nameplate.
- One-inch NPT pipe cap filling provision.
- ANSI tank ground pads.
- One-inch drain valve and sampler.
- Automatic pressure-relief valve (35 SCFM).
- Tap changer with (2) 2.5% full capacity taps above and below nominal.
- One 10"x18" (or 14"x25") hand hole in transformer tank cover.
- Painted olive-green color (Munsell 7GY 3.29/1.5).
- Designed, manufactured and tested in accordance with the latest ANSI standards.

Optional Features & Accessories

- Broad selection of design efficiencies to meet specific customer applications and the new DOE efficiency requirements.
- 50 Hz.
- Type II insulating mineral oil.
- High-fire point fluid, such as silicone, hydrocarbon or vegetable fluids.
- 55° and 55°/65°C average winding rise.
- Copper and aluminum windings available.
- Dual high-voltage ratings.
- Internal expulsion fuses.
- Current limiting fuses.
- Internal oil-immersed partial range current-limiting fuses.
- Bayonet fuse holders with and without flapper.
- Non-loadbreak and loadbreak dry-well fuseholders.
- Internal oil switch (radial or loop).
- Under oil internal arresters.
- Low-voltage molded-case circuit breaker.
- Seismic Zone III and IV.
- Stainless steel tank and cabinet construction.
- Special colors.
- RUS accepted.
- Compliance with Canadian Standards (CSA).

Tests

Each transformer receives all standard commercial tests in accordance with ANSI C57.12.90 (latest revision), with test reports available by serial number of the transformer.

- Resistance tests of all windings.
- Ratio tests on the rated voltage and all tap connections.
- Polarity and phase relation tests at rated voltage.
- No load loss at rated voltage.
- Exciting current at rated voltage.
- Impedance and load losses.
- Applied voltage test.
- Induced voltage test.
- Full-wave impulse test.
- Mechanical leak test.

Standard Voltages

Standard Primary	
Voltage Ratings	Minimum BIL (kV)
2400	45
4160	60
4800	60
7200	75
7620	75
12000	95
12470	95
13200	95
13800	95
16340	95

Grounded Wye	
4160GrdY/2400	65
12470GrdY/7200	95
13200GrdY/7620	95
13800GrdY/7970	95
22860GrdY/13200	125
23900GrdY/13800	125
24940GrdY/14400	125
34500GrdY/19920	150

Standard Ratings

Standard kVA Ratings		
45	225	1000
75	300	1500
112.5	500	2000
150	750	2500

Overall Typical Dimensions for Reference

kVA	Height	Width	Depth	Typ Weight (Lb)	Typ Gal Oil
75	64	46	65	2,512	136
112.5	64	46	65	2,729	145
150	64	47	65	2,895	145
225	66	50	67	3,499	164
300	67	53	68	3,866	171
500	68	62	70	4,958	203
750	75	72	72	6,590	272
1000	78	75	75	7,647	312
1500	82	82	83	9,888	368
2000	86	85	89	11,891	433
2500	87	88	96	13,794	487

For kVAs not listed, contact factory.

Dimensions and weights are approximate and subject to change without notice and should not be used for construction purposes.

