



Substation Transformers



Prolec GE offers a complete line of liquidfilled distribution transformers that meet current applicable ANSI® / IEEE® standards.

With high voltages up to 34.5kV and ratings up to 15 MVA (ONAN), Prolec GE primary and secondary substation transformers are used in a wide range of utility, commercial and industrial applications. High-grade materials, combined with state of the art technology in our design and manufacturing systems, are key elements of a transformer that will deliver years of high reliability service.

Prolec GE Primary and Secondary Substation Transformers meet all of your industrial applications for electric distribution.

Standard Features

- Insulating mineral oil.
- 60 Hertz operation.
- Externally operated de-energized tap changer with (2) 2.5% full capacity taps above and below nominal.
- 65°C average winding rise.
- Side-mounted bushings.
- HV and LV flange connections.
- Pressure-vacuum gauge.
- Top filter press valve provision.
- Liquid level gauge.
- Liquid temperature gauge.
- Pressure test valve.
- ANSI grounding pad.
- Drain / filter valve with sampling device.
- Tank lifting lugs.
- Corrosion resistant nameplate.
- ANSI 61 paint finish, 5 mils thickness.
- ANSI 70 paint finish, 5 mils thickness.
- Hydran provision (above 7.5 MVA).

Optional Features & Accessories

- High-fire point fluid, such as silicone, hydrocarbon or vegetable fluids. (up to 10 MVA)
- 55 °C 55/65°C average winding rise.
- Forced air cooling
- Forced air cooling with 2 stages (from 7.5 MVA and up to 15 MVA)
- Future fan wiring and control.
- Removable radiators.
- Pressure relief device.
- Winding temperature device.
- Sudden pressure relay with or without seal in.
- Devices with alarm contacts.
- Top filter press valve.
- HV & LV air terminal compartments.
- HV lightning arresters in ATC.
- Current transformers.
- Neutral grounding resistor.
- Special impedances.
- Low losses.
- Special environment (i.e: classified areas).
- Special / low sound level.
- 50 Hertz.
- Seismic zone III and IV.
- IBC/CBC certified product line up to 5 MVA
- Retrofit to specific dimensions.
- Non-standard loading conditions such as harmonic loading or specified K-factor.
- Stainless steel removable radiators.
- Galvanized steel removable radiators.
- Special paint for marine ambient.
- Special paint thickness.
- Special colors.
- CSA compliance.
- Other special features upon request.

Tests

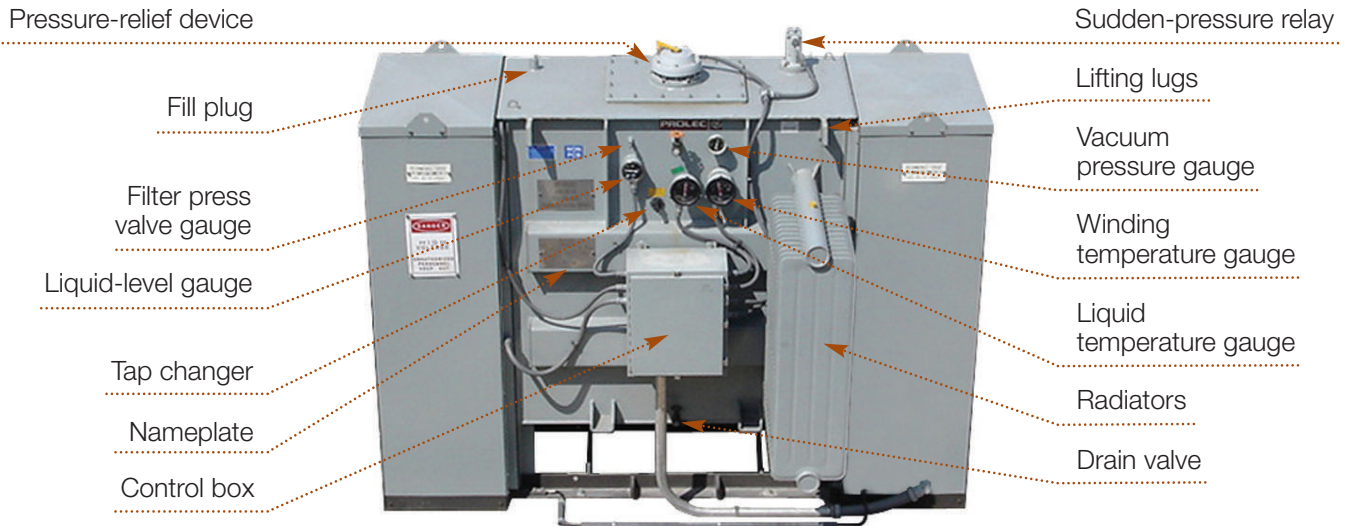
Each transformer receives all standard commercial tests in accordance with ANSI C57.12.90 (latest revision), with test reports available by serial number of the transformer.

Routine tests include:

- 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.

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IEEE is a registered trademark of the Institute of Electrical Engineers, Inc.



Overall Typical Dimensions for Reference

Oil Filled; 65°C Rise; BIL 95 kV

kVA	Height	Flange - Flange	Depth	Total Weight (Lb)
750	90	50	60	6,400
1000	90	60	70	7,300
1500	95	60	75	9,500
2000	95	65	75	11,400
2500	95	65	80	13,100
3000	100	70	90	15,800
3750	105	70	90	18,200
5000	105	75	95	22,000
7500	120	80	110	29,000
10000	130	80	135	32,800
12000	130	85	135	38,200
15000	130	130	155	70,000

High Fire Point Fluid; 65°C; BIL 95 kV

kVA	Height	Flange - Flange	Depth	Total Weight (Lb)
750	85	55	60	6,300
1000	85	60	75	7,400
1500	85	60	85	9,500
2000	90	65	85	11,900
2500	95	70	90	13,400
3000	100	70	95	15,700
3750	100	75	95	18,300
5000	100	80	105	22,100
7500	110	80	125	30,400
10000	115	90	135	33,000
12000	125	95	135	35,700

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.

Standard Ratings (ONAN)

Standard kVA Ratings		
225	1500	7500
300	2000	10000
500	2500	12000
750	3750	15000
1000	5000	

Standard Voltages (V)

Standard Primary Voltage Ratings		
* 2400	7200	13800
4160	12000	23000
4800	12470	34500
6900	13200	Other

Standard Secondary Voltage Ratings

* 208Y	2400	12470
* 240	4160Y	13200
480	4800	13800
600	12000	Other

