

2.3. DISTRIBUTION TRANSFORMERS

2.3.1. Large distribution transformers, LDT

IEC Standard

Power range	5000 kVA and above
Primary voltage	Up to 72,5 kV
Available fluids	Mineral oil, dimethyl silicone, esters and synthetic hydrocarbons

Transformers of this type are used for receiving the energy from higher voltage levels and to transform and distribute the energy to lower voltage level substation or directly to large industrial consumers.

Transformers in this range are three phase and can be manufactured with off-circuit tap changer or on-load tap changer. Transformers provided with on-load tap changer usually have a separate tap winding.

The core is constructed of grain oriented steel laminations. The windings are made of paper insulated rectangular wire in the form of multi-layer disc or helical windings, and the conductor materials are either copper or aluminium. The tanks typically have radiators, however the smaller sizes might have corrugated tank walls.



ANSI / IEEE Standard

Substation and Unit Substation

Power range	112,5 kVA - 20 MVA
Primary voltage	Up to 69 kV
Secondary voltage	Up to 34,5 kV
Available fluids	Mineral oil, dimethyl silicone, esters and synthetic hydrocarbons

The Substation and Unit Substation Transformer are three phase and can be manufactured with off-circuit tap changer or on-load tap changer. The core is made of grain oriented silicon steel laminations. The coil is made of either aluminium or copper both in high and low voltage windings. The tank is equipped with radiators.



Abb Transformer Maintenance Manual

Tobias Bleicker

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