

Oil-Immersed Transformer

TDT-I

Technical Data

TGOOD
2018-12-9

TGOOD



1. TDT technical data



Environmental conditions

Maximum ambient temperature	+40°C (higher temperature optional)
Minimum ambient temperature	Indoor: -5°C Outdoor: -25°C (lower temperature optional)
Altitude	<1000m (higher value optional)
Annual rainfall	Max: 1800-2400 Min: 0-100
Average Annual Lighting Ground Flash Density	3 strikes per km ²
Solar Radiation-Maximum	1.1 kW/m ² , High ultra violet content
Humidity	90%
Pollution level	I, II, III, IV

Power system conditions

Frequency	Hz	50
Highest system voltage	kV	12
No. of phases		3
Impulse withstand voltage (peak)	kV	75
Power frequency withstand voltage (rms)	kV	28
Normal system voltage	kV	12
System earthing		Solidly earthed
System fault level	kA/s	25kA/2s
Auxiliary power supplies	V	220, AC

General technical parameters

Applicable standards		IEC 60076
Installation location		Outdoor in enclosure
No. of phase		3
Frequency	Hz	50

No. of windings		2
Rated voltage ratio		11000/415
Rated power	kVA	315/750/1000/1600
Vector group		Dyn11
Type of cooling		ONAN
Winding material		Cu
Impedance voltage	%	4, 5, 5, 6
Oil conservation system (NA for dry type)		Sealed
Insulating oil		Mineral oil
Sound pressure level at 0.3m	dB	≤45
No-load loss	W	343/620/737/1040 at 90% 570/1047/1270/1710 at 110%
Load loss	kW	3.5/6.15/11.45/16.14

Insulation and cooling medium

Mineral insulating oil (where used)		Yes
Standard		IEC

Tap changer requirement

Tap changer location		HV side
Tap range		+4/-2 x 2.5%
Tapping positions		7
Tapping method		Off load (being locked in each position)

External connections

HV		In accordance with IEC 60137
Terminal type		Cast resin/porcelain, bolted/ plug in type

Paint thickness	um	>110
Paint color		As per customer requirement
Magnetic core material		Grain-oriented, silicon steel
LV winding material		Cu
HV winding material		Cu

Fittings

Rating plate		Yes
Lifting lug		Yes
Oil level indicator		Yes
Oil thermometer		Yes
Winding thermometer		Optional
Temperature gauge		One for top oil
Thermometer pocket		Yes
Drain valve		Yes
Pressure relief valve		Yes
Filler cap		Yes
Transformer earthing connection/ terminal		Stainless steel earth bar
Filter valve		Yes
Transformer markings		Yes
Terminal markings/markings plate		As per IEC 60076

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