TTSA
transfix transformers sa

SABS APPROVED

SABS ISO 9001

Permit Nr 9516/15090 **Reg Nr: LS 4659**

TECHNICAL DATA

Non breathing hermetically sealed transformer

phase number	Three	insulating liquid	Oil	oil type	SANS 555

INSTALLATION

cooling medium	Step down	type	Pole monted	installation	outdoor
cooling	ONAN	max. sea level	1 800 m		
air ambient temperature	40 °C	normative referencee	SANS 60076	SANS 780	

ELECTRICAL CHARACTERISTIC

rated power	500 kVA	frequency	50 Hz	vector group	Dyn11
sound power level	52 dBA	temperature rise	60 K	winding	65 K
		no load losses	720 W		
		load losses at 75°C	5 400 W		
		total losses	6 120 W		

	Primary	Secondary
voltage	11 000 V	415 V
Off-load tap changing (%)	+-2 x 3%	
Off-load tap changing (V)	+-2 x 330V (+-0.4 %)	
vector group	D	yn
Highest voltage for hte equipement	12 kV	1.1 kV
Power frequency whistand voltage	28 kV	3 kV
Rated lightning impulse voltage	95 kV	30 kV
Short-circuit impedance	5 % (+-10%)	
rated current	26.24 A	696 A
Winding conductor material	Al	Al

efficiency	Power factor = 1	Power factor = 0.8
Load =100%	98.79%	98.49%
75%	99.01%	98.76%
50%	99.18%	98.98%
25%	99.16%	98.95%

voltage drop	Power factor = 1	Power factor = 0.8
Load =100%	1.20 %	3.85 %
80%	0.94%	3.07 %

DIMENSIONS

Drawing **4081696**

TANK PROTECTION

Use in corrosive environment "Coastal".

SANS 780.8.23.4.1: Sand Blasting Profile 50 µ - 75 µ

SANS 780.8.23.4.2.b: Zinc Spraying 50 µ - 75 µ

SANS 780 8.23.4.3a: Phenolated Alkyd primer 50 µ - 55 µ Color **navy light grey G35**

Alkyd intermediate 50 µ - 55 µ + Alkyd top coat 25 µ - 35 µ

TESTS

Routine tests systematically performed on each transformer and object of a certificate :

- Voltage ratio measurement
- Windi ng resistance measurement
- Short duration power withstand voltage on each winding
- Short-circuit characteristics measurement .
- Load losses, Short-circuit impedance
- No-load losses and current measurement
- Induced voltage withstand test at twice the rated voltage during 30 seconds at 200Hz

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