

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 ESKOM 240-45395762**

ELECTRICAL CHARACTERISTIC

rated power **100 kVA** frequency **50 Hz** vector group **Dyn11**
 sound power level **48 dBA** temperature rise **60 K** winding **65 K**
 no load losses **260 W +15%**
 load losses at 75°C **1 700 W +15%**
 total losses **1 960 W +10%**

	Primary	Secondary
voltage	22, 000 V	420 V
Off-load tap changing (%)	+2 x 2,5%	
Off-load tap changing (V)	+2 x 275V (+-0,4 %)	
vector group	D	yn
Highest voltage for hte equipment	12 kV	1.0 kV
Power frequency whistand voltage	28 kV	3 kV
Rated lightning impulse voltage	95 kV	30 kV
Short-circuit impedance	3,5 % (+-10%)	
rated current	2.63 A	137 A
Winding conductor material	Cu	Cu

efficiency	Power factor = 1		Power factor = 0,8		voltage drop	Power factor = 1		Power factor = 0,8		
	Load =100%	75%	50%	25%		Load =100%	80%	1,75 %	1,39 %	3,21 %
	98,08%	98,40%	98,65%	98,56%						
	97,61%	98,01%	98,32%	98,20%						

DIMENSIONS

Drawing **4081213**

TANK PROTECTION

Sandblasting, zinc plating 60µ epoxy powder 40µ (Total 100µ)
 Finishing: DS14 + DS15

Color **navy light grey G35**

TESTS

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

- Voltage ratio measurement
- Winding 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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