



TECHNICAL DATA n°

01299KM 00

Non breathing hermetically sealed transformer

phase number **Single** 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 **16 kVA** frequency **50 Hz**
 sound power level **48 dBA** temperature rise **60 K** winding **65 K**
 no load losses **65 W +15%**
 load losses at 75°C **400 W +15%**
 total losses **465 V +-10%**

	Primary	Secondary
voltage	11,000 V	240V
Off-load tap changing (%)	2x2.5%	
Off-load tap changing (V)	2x275 (+-0.4 %)	
Highest voltage for hte equipment	12 kV	1.1 kV
Power frequency withstand voltage	28 kV	3 kV
Rated lightning impulse voltage	95 kV	30 kV
Short-circuit impedance	3.5 % (+-10%)	
rated current	1.45 A	66.67 A
Winding conductor material	AL	AL

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 **4081299**

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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