



Transfix
groupe Cahors
phase number

TECHNICAL DATA n°

F1310IJ 00

"TOTEM" Transformer with built-in Inductance + "TPC" 3 phase protect. & trip. Device

Three

insulating liquid

Oil

INSTALLATION

Operation **Step down** type installation **under enclosure**
cooling **ONAN** max. sea level **1 000 m**
air ambient temperature **-40 to +40 °C** normative referencee **IEC 60076-1 to 5 IEC 60076-6 IEC 60076-13**

ELECTRICAL CHARACTERISTIC

rated power **100 kVA** frequency **50 Hz** vector group **ZN(d)yn11**
sound power level **54 dBA** temperature rise **60 K** winding **65 K**
coordination diagram **4078929** no load losses **280 W +5%**
load losses at 75°C **1 450 W +5%**
total losses **1 730 W +5%**

	Primary	Secondary
voltage	22 000 V	240 V
Off-load tap changing (%)	+2x2.5% -4x2.5%	
Off-load tap changing (V)	+2x550v -4x550v (+-0.4 %)	
vector group	ZN	yn
Highest voltage for hte equipment	24 kV	1.1 kV
Power frequency whistand voltage	50 kV	6 kV
Rated lightning impulse voltage	125 kV	
Short-circuit impedance	4.0 % (+-10%)	
rated current	2.62 A	241 A
Winding conductor material	Cu	Cu

INDUCTANCE WINDING

voltage = **12 702 V** Ix (inductive) = **15 A**

TIME FOR EARTH FAULT CURRENT

time = **300 s** The criterion is a max. temperature rise of the windings 100K and oil 90 K (duration > 10s and < 2 hours)

MAX. ACTIVE CURRENT

Ia = **< 2,5% Ix**

Linearity variation of the total zero-sequence impedance < 2%
Linearity variation of the zero-sequence iductance alone < 1,5%

Steps % : 0,2 - 0,5 - 1,0 - 5 - 10 - 25 - 50 - 75 - 100 - 110

DIMENSIONS

Drawing **4078050**

TANK PROTECTION

Sandblasting, zinc plating 60µ; finishing: polyester powder 40µ Color **RAL 7033**

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 .
- Zo (earthing reactor + transformer)
- Max active current I_a
- 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

Type test :

- Linearity variation of zero-sequence impedance + inductance

Societe Nouvelle TRANSFIX Toulon

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