

Type:	TOTEM TPC - TRE FASER		Serial Number:	26TT0733	page 1/1				
Reference :	01331GLR03		Losses level:		Year:	2026			
Power:	200 kVA	Dielectric weight :	310 kg	Frequency:	50 Hz				
Standard:	IEC 60076-1 to 6, IEC 60076-13								
Cooling:	ONAN	Total weight:	1530 kg	Dielectric:	Mineral Oil	Connection symbol:	ZN(d)yn11		
Windings	Nature	Tappings						I (A) RATED	
		1	2	3	4	5	6		7
HV	Copper	23100V	22550V	22000V	21450V	20900V	20350	19800	5,25A
LV	Copper	240V						481A	

DIELECTRICAL TEST

SEPARATE SOURCE VOLTAGE				INDUCE VOLTAGE			
	kV	F	Time (s)	Supply	Volts	F (Hz)	Time (s)
LV / HV + ground	6	50	60	On LV side	480	200	30
HV / LV + ground	50	50	60				

Earthing Reactor

Zo (Transformer + Earthing reactor) = 2485 Ω	Ia (40°C) = 0.37 A	Ix (40°C) = 15.3 A	
Neutral current values	Ia max = 0,375 A	Ix (40°C) = 15 A +/- 5%	
Separate Source Voltage test for stabilization winding	6 kV	50 Hz	60 s
Separate Source Voltage test for earthing reactor	50 kV	50 Hz	60 s
Induced voltage test for earthing reactor	480 V	200 Hz	30 s

WINDING RESISTANCE MEASUREMENT

Temp | 22.0°C

Nominal tapping	HV (Ω)			LV (mΩ)		
	AB	BC	CA	ab	bc	ca
	23.628	23.716	23.662	2.641	2.629	2.667

TRANSFORMER RATIO MEASUREMENT

TAPPING	VOLTAGE		Theoretical values	Measured values
	HV	LV		
1	23100V	240V	166.71	166.80
2	22550V		162.74	162.84
3	22000V		158.77	158.73
4	21450V		154.80	154.83
5	20900V		150.83	150.84
6	20350V		146.86	146.83
7	19800V		142.89	142.90

LOSSES MEASUREMENT

TAPPING	Nominal tapping	Contractual values	Tolerance
No-load losses	430W	430W	+5 %
No-load current	0.24%		
Load losses at 75°C	2540W	2580W	+5 %
Total losses	2970W	3010W	+5 %
Impedance voltage at 75 °C	4.05%	4.00%	±10 %

Conclusion : Results of measurements and above mentioned tests are satisfactory.

Coordination diagramm : Nr 4077378 / HV Fuse : 20A

Installation and commissioning guide Nr : 40100832R03


Observation : Transformer free of PCB.

La Garde:

Le Responsable des Essais :

Version	Date	Modification
00	20 avril 2026	Initial report

L.SEIMANDI



Medium Voltage Division
TRANSFIX

836, Route Départementale 97
Lieu-dit: «La CHABERTE»
83130 La Garde – France
Tél. +33 (0)4 94 08 74 00
Fax +33 (0)4 94 75 00 28
www.groupe-cahors.com

SA au capital de 5040000 €
312346810 RCS Toulon
APE 2711Z
FR 72312346 810