

Type:	TRE FASER - TOTEM TPC			Serial Number:		25TT1252		page 1/1	
Reference :		01310IIR03		Losses level:				Year:	2025
Power:		100 kVA	Dielectric weight :		220 kg	Frequency:		50 Hz	
Standard:			IEC 60076-1 to 6,IEC 60076-13						
Cooling:		ONAN	Total weight:		1140 kg	Dielectric:		OLJE	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	2,62
LV	Copper	415V							139

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	830	200	30
HV / LV + ground	50	50	60				

Earthing Reactor			
Zo (Transformer + Earthing reactor) = 2526 Ω		Ia (40°C) = 0.44 A	Ix (40°C) = 15.1 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	23.0℃	
Nominal tapping	HV (Ω)				LV (mΩ)		
	AB	BC	CA		ab	bc	ca
	58.96	59.025	58.33		18.134	18.053	18.461

TRANSFORMER RATIO MEASUREMENT				
TAPPING	VOLTAGE		Theoretical values	Measured values
	HV	LV		
1	23100V	415V	96,41	96,41
2	22550V		94,11	94,12
3	22000V		91,82	91,81
4	21450V		89,52	89,55
5	20900V		87,23	87,23
6	20350V		84,93	84,93
7	19800V		82,64	82,63

LOSSES MEASUREMENT			
TAPPING	Nominal tapping	Contractual values	Tolerance
No-load losses	236W	260W	+5 %
No-load current	0,74%		
Load losses at 75°C	1385W	1350W	+5 %
Total losses	1621W	1610W	+5 %
Impedance voltage at 75 °C	3,80%	4,00%	±10 %

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

Coordination diagramm : Nr 4078930 / HV Fuse : 10A

Installation and commissioning guide Nr : 40100832R03

Observation : Transformer free of PCB.

La Garde:

Le Responsable des Essais :

Version	Date	Modification
00	28 avril 2025	Initial report

L.SEIMANDI

