

Date:	23.01.2025	<b>Transformer Technical Data Sheet</b>	
Offer No:	24/4843 A		
Rev. No:	R03		

#### General Characteristics

1	Type	PTR 60000/72,5	
2	Applied Standards	IEC 60076	
3	Rated Power @ONAN	60	MVA
4	Cooling method	ONAN	
5	No Load Rated Voltages (HV/LV)	54,5 / 33	kV
6	Voltage Tapping @ HV	17 taps; (+8 ; -8) x 1,25%	On Load
7	Vector Group	Dyn11	
8	Frequency	50	Hz
9	Maximum Ambient Temperature	40	°C
10	Average Winding / Top Oil Temperature Rise Limits	65 / 60	K
11	Altitude	≤ 1000	m
12	Colour	RAL 7033 C5H	

#### Guaranteed Values

13	No-Load Losses @1.0xUn	Po	29	kW
14	Load Losses @75 °C, 54,5/33 kV & 60 MVA	Pk	206	kW
15	Short Circuit Impedance @75 °C, 54,5/33 kV & 60 MVA	Uk	8	%
16	No-Load Current	Io	0,3	%
17	No-Load Sound Pressure Level @1 m ONAN	LpA	60	dB

Note: Transformer has been designed according to IEC 60076. Tolerances will be applied on guaranteed values according to IEC 60076.

#### Insulation Levels

	BIL (kV)	AC (kV)
18 HV	550	230
19 LV	170	70
20 LV-N	170	70

#### Bushing Types and Terminations

21 HV	Plug-in	Open Air
22 LV	Plug-in	Open Air
23 LV-N	Plug-in	Open Air

#### Outer Dimensions

	Total (mm)	Transport (mm)
24 Length	7200	5800
25 Width	4400	2200
26 Height	6600	3500

#### Weights

27 Oil	21000	kg
28 Active Part	45500	kg
29 Total	91000	kg
30 Transport without oil and coolers	57000	kg

Note: All dimensions and weights are specified as approximately.

Note: Accessories can only be supplied with the manufacturers' standards.

Designed by

Esra Kılıç



Approved by

Gökberk Erdin



Date:	23.01.2025	<b>Transformer Equipment List</b>	
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- |  |  |
|--|--|
| <input checked="" type="checkbox"/> HV Bushing                             | <input type="checkbox"/> Oil Pumps                         |
| <input type="checkbox"/> MV Bushing  | <input type="checkbox"/> Oil Flow Indicator                |
| <input checked="" type="checkbox"/> LV Bushing                             | <input type="checkbox"/> Shutter                           |
| <input type="checkbox"/> TV Bushing  | <input checked="" type="checkbox"/> pt100 sensors          |
| <input checked="" type="checkbox"/> On-Load Tap Changer                    | <input type="checkbox"/> Sudden Pressure Rise Relay        |
| <input type="checkbox"/> Off-Load Tap Changer                              | <input checked="" type="checkbox"/> Control Cabinet        |
| <input checked="" type="checkbox"/> Buchholz Relay (Main Tank)             | <input type="checkbox"/> Automatic Voltage Regulator (AVR) |
| <input checked="" type="checkbox"/> Buchholz Relay (Seperator)             | <input type="checkbox"/> Transformer Monitoring System     |
| <input checked="" type="checkbox"/> Breather (Main Tank)                   | <input type="checkbox"/> RTCC                              |
| <input checked="" type="checkbox"/> Breather (OLTC)                        | <input type="checkbox"/> Dissolved Gas Analyzer (DGA)      |
| <input checked="" type="checkbox"/> Pressure Relief Device                 | <input type="checkbox"/> HV Surge Arrester                 |
| <input type="checkbox"/> Maintenance Free Breather (Main Tank)             | <input type="checkbox"/> MV Surge Arrester                 |
| <input type="checkbox"/> Maintenance Free Breather (OLTC)                  | <input type="checkbox"/> LV Surge Arrester                 |
| <input checked="" type="checkbox"/> Oil Temperature Indicator              | <input type="checkbox"/> TV Surge Arrester                 |
| <input checked="" type="checkbox"/> Winding Temperature Indicator          | <input type="checkbox"/> Fire Protection System            |
| <input checked="" type="checkbox"/> Oil Level Indicator (Main Tank)        | <input type="checkbox"/> Heat Exchanger                    |
| <input checked="" type="checkbox"/> Oil Level Indicator (OLTC Conservator) | <input type="checkbox"/> Neutral Grounding Resistor        |
| <input checked="" type="checkbox"/> Seperator                              | <input type="checkbox"/> Thermos-syphon Filter             |
| <input type="checkbox"/> Cooling Fans                                      | <input checked="" type="checkbox"/> Impact Recorder        |
| <input checked="" type="checkbox"/> Thermal Image Current Transformer      |  |
| <input type="checkbox"/> Bushing Current Transformer                       |  |

#### Other Equipments