

**TRANSFORMER TESTING REPORT**

Customer : Turbo Computer	Test Date : 08/17/2022
Equipment : 145	Serial : 145
Order Info : O845	Order Date : 08/17/2022

TECHNICAL SPECIFICATION OF TRANSFORMER

Rating (KVA)	100	Frequency	50	Mfg. Year	2021
Type	t1	Impedence Volts (%)	5	Winding Material	AL
No Load Voltage HV (Volts)	11000	Type of Cooling	ONAN	Reference Standard	R2
No Load Voltage LV (Volts)	433	Temp.Rise of Oil (degC)	25	Oil Test (BDV Test)	OK
Line Current HV (Amp)	5	Volume of Oil (Ltrs)	400	Guaranteed Load Loss @50%	10
Line Current LV (Amp)	133	Mass of Oil (kg)	500	GuaranteedLoad Loss @100%	20
No.of Phases	3	Wt.of Core & Wdg.Assy.(k)	1000	Max. HVR/phase at 20 degC(ohm)	30
Vector Group	V1	Total Weight (kg)	1500	Max. LVR/phase at 20degC(ohm)	40

Separate source power freq.Test at HV/E 28KV & LV/E at 3KV for 1 mnt.	OK	<p align="center">Calculation of Losses</p> <table border="0"> <tr> <td>HVR/phase at Amb.Temp.(Ohms)</td> <td>34</td> </tr> <tr> <td>LVR/phase at Amb.Temp.(Ohms)</td> <td>0</td> </tr> <tr> <td>HVR/phase at 75 degC(Ohms)</td> <td>41</td> </tr> <tr> <td>LVR/phase at 75 degC(Ohms)</td> <td>0</td> </tr> <tr> <td>Total I X I X R at Amb. Temp.</td> <td>1596</td> </tr> <tr> <td>Measured Losses at Amb. Temp.</td> <td>2004</td> </tr> <tr> <td>Stray Losses at Amb. Temp.</td> <td>409</td> </tr> <tr> <td>Stray Losses at 75 degC</td> <td>341</td> </tr> <tr> <td>I X I X R Losses at 75 degC</td> <td>1913</td> </tr> <tr> <td>Total Load Losses at 75 degC</td> <td>2653</td> </tr> <tr> <td>Guaranteed 50% Load Losses</td> <td>0</td> </tr> <tr> <td>Guaranteed 100% Load Losses</td> <td>0</td> </tr> </table> <p align="center">Result :</p> <table border="0"> <tr> <td><u>RatAmb</u></td> <td>2.00</td> </tr> <tr> <td><u>XatAmb</u></td> <td>0.00</td> </tr> </table>	HVR/phase at Amb.Temp.(Ohms)	34	LVR/phase at Amb.Temp.(Ohms)	0	HVR/phase at 75 degC(Ohms)	41	LVR/phase at 75 degC(Ohms)	0	Total I X I X R at Amb. Temp.	1596	Measured Losses at Amb. Temp.	2004	Stray Losses at Amb. Temp.	409	Stray Losses at 75 degC	341	I X I X R Losses at 75 degC	1913	Total Load Losses at 75 degC	2653	Guaranteed 50% Load Losses	0	Guaranteed 100% Load Losses	0	<u>RatAmb</u>	2.00	<u>XatAmb</u>	0.00
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Induced Over Voltage Withstand Test Ambient Temp.	OK																													
Measurement of Winding Resistance Between HV terminals (Ohms)	25																													
1U - 1V	1																													
1V - 1W	23																													
1W - 1U	23																													
Between LV terminals (Milli Ohms)	23																													
2u - 2v	26																													
2v - 2w	23																													
2w - 2u	26																													
Measurement of Voltage Ratio																														
1u1v - 2un	40																													
1v1w - 2vn	40																													
1u1w - 2wn	40																													
Polarity checked by Ratiometer	OK																													
Measurement of Insulation Resistance HV to Earth (M-Ohms)	550																													
LV to Earth (M-Ohms)	560																													
LV to HV (M-Ohms)	570																													
Measurement of NoLoad Current	4																													
Voltage Applied Across LV (volts)	432																													
Measurement of NoLoad Loss	399																													
Measurement of Load Losses at 100%																														
Impedence Voltage	489																													
Rated Full Load Current (Amps)	1																													
Measured Losses	2004																													
%Z at Room Temp	0																													
%Z at 75 degC	0																													