



COMFORT INSTA-POWER LTD.

Works: Plot no.275-276, GIDC Estate,
Anjar- Kutch- Gujarat- India
Ph# 02836- 325565 Telefax # 02836-242776
Visit us at : www.comfortinstapower.com
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TEST RESULT SHEET

Customer : M/s. Rajkripal Exim Pvt. Ltd.
Order No. & Date : REPL/ELCT/PO dated 17.06.10
Rating : 500 KVA, 11/0.433 KV
Date : 04.09.10
Sr.No. : IP-105

1) Room Temperature °C : 30

2) Measurements of no load current, no load loss, impedance voltage and load loss:

Open circuit test at 433 Volts		Short circuit test at 26.24 Amperes on Tap # 3	
Current in Amperes	Losses in Watts	Voltage in Volts	Losses in Watts
6.876	698.8	513	5680

3) Resistance measurement at ambient temperature:

L.V. (in milliohms)		H.V. (in ohms)					
		Tap #:	1	2	3	4	5
Between 2U2V :	3.34	1U1V :	2.89	2.82	2.74	2.67	2.60
Between 2V2W :	3.33	1V1W :	2.88	2.80	2.73	2.66	2.59
Between 2W2U :	3.39	1W1U :	2.89	2.81	2.73	2.66	2.59

4) Insulation resistance measurement:

L.V. to H.V. :	10000	Mohms.
H.V. to Earth :	1700	Mohms
L.V. to Earth :	1000	Mohms.

5) Ratio measurement:

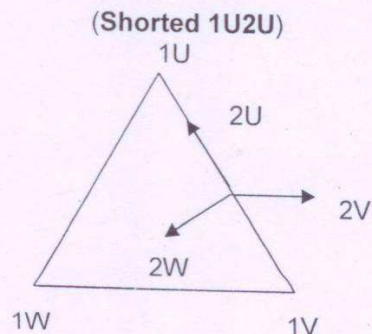
Tap position	1	2	3	4	5
Nominal	46.20	45.10	44.00	42.90	41.80
U phase	+0.40	+0.42	+0.42	+0.42	+0.43
V phase	+0.05	+0.05	+0.05	+0.04	+0.04
W phase	+0.05	+0.05	+0.04	+0.04	+0.04

Polarity test: Checked and found O.K.

6) Vector group relationship test

Supply voltage:
1U1V = 397 Volts
1V1W = 400 Volts
1W1U = 392 Volts

Measured voltage:
1V2V = 381 Volts
1V2W = 381 Volts
1W2V = 394 Volts
1W2W = 382 Volts



Here $1V2V = 1V2W$ and $1W2V > 1W2W$ Hence vector group is Dvnl1



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7) Magnetic unbalance test:

440 Volts supplied between	Voltage measured between					
	2U2N	2V2N	2W2N	1U1V	1V1W	1W1U
1U1V	10.03	7.37	2.624	444	326	115
1V1W	5.00	10.04	5.08	221	446	225
1W1U	2.67	7.48	10.22	116	327	444

Conclusion: There is no magnetic imbalance found.

8) Following tests are carried on the Transformer:

Power frequency test on primary at 28KV & secondary at 3 KV
Induced over voltage test at 0.866 KV & 100 Hz.

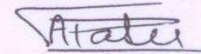
- Withstood for 1 minute.
- Withstood for 1 minute.

For Comfort Insta Power Ltd.



(Nirav Patel)

For Delta Engineers



(Ashish Patel)