



COMFORT INSTA-POWER LTD.

Plot no. 275-276, GIDC Estate, Anjar-Kutch-Gujarat-India

Telefax:02836-242776

E-mail : info@comfortinstapower.com, pn@comfortinstapower.com

Visit us : www.comfortinstapower.com

TEST RESULT SHEET

Customer : M/s. Excel Crop Care Limited
 Order No. & Date : Nil dated 29.06.08
 Rating : 1500 KVA, 11/0.433 KV
 Date : 06.09.08
 Sr.No. : IP-62

1) Room Temperature °C : 36
 2) Multiplier for
 C.T ratio : Open circuit test Short circuit test
 Wattmeter : 10 10
 Multiplier : - -
 Constant : - 8.68
 (R) : 10 86.8

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

Open circuit test at 433 Volts			Short circuit test at 78.73 Amperes on Tap # 5		
Current in Amperes	Wattmeter Reading (W1 - W2) x R	Losses in Watts	Voltage in Volts	Wattmeter Reading (W1 - W2) x R	Losses in Watts
14.5	(420 - 290) x 10	1300	613	(310 - 150) x 86.8	13888

4) Resistance measurement at ambient temperature:

	L.V. (in milliohms)		H.V. (in ohms)		
		$\frac{L \cdot R}{R}$	on tap #1	on tap #5	on tap #17
Between 2U2V :	1.32-0.1=1.22		1U1V : 0.66	0.69	0.56
Between 2V2W :	1.30-0.1=1.20		1V1W : 0.66	0.70	0.56
Between 2W2U :	1.36-0.1=1.26		1W1U : 0.66	0.69	0.56

5) Insulation resistance measurement:

L.V. to H.V. :	1500	Mohms.
H.V. to Earth :	1500	Mohms
L.V. to Earth :	1500	Mohms.

6) Ratio measurement:

Tap position	1	2	3	4	5	6	7	8
Nominal	9.24x5	9.13x5	9.02x5	8.91x5	8.80x5	8.69x5	8.58x5	8.47x5
U phase % variation	+0.07	+0.05	+0.16	+0.12	+0.24	+0.08	+0.05	+0.02
V phase % variation	+0.09	+0.20	+0.16	+0.14	+0.10	+0.09	+0.06	+0.03
W phase % variation	-0.04	+0.05	+0.04	0.00	-0.02	-0.05	-0.09	-0.10

Registered office: Plot no. 34-33, Vrindavan Society-2, Anjar-Gandhidham Road, Nr. Public Garden, Anjar (Kutch)- 370110.

Regional Office: B/12, Ashray Bunglows, B/H. Yash Complex, Geri Compound Road, Gotri, Baroda. Ph# 0265-3259285, 6581433, Tele-fax: 2370811
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9	10	11	12	13	14	15	16	17
8.36x5	8.25x5	8.14x5	8.03x5	19.80x2	19.53x2	19.25x2	18.98x2	18.70x2
+0.14	+0.10	+0.08	+0.20	+0.24	+0.18	+0.18	+0.12	+0.12
+0.14	+0.11	+0.09	+0.20	+0.24	+0.19	+0.18	+0.13	+0.12
0.00	-0.03	-0.06	+0.06	+0.10	+0.03	+0.03	-0.03	-0.04

Polarity test: Checked and found O.K.

7) 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.

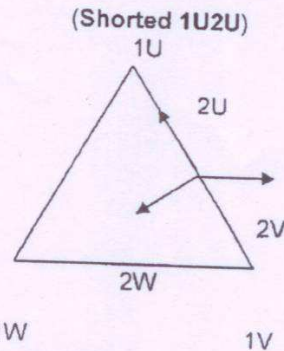
8) Vector group relationship test

Supply voltage:

1U1V =	392	Volts
1V1W =	386	Volts
1W1U =	401	Volts

Measured voltage:

1V2V =	384	Volts
1V2W =	376	Volts
1W2V =	393	Volts
1W2W =	386	Volts



Here, $1V2V = 1V2W$ and $1W2V > 1W2W$. Hence vector group is Dyn11.

9) Magnetic unbalance test:

440 Volts supplied between	Voltage measured between			Result
	2U2N	2V2N	2W2N	
1U1V	9.93	7.09	2.84	$2V2N + 2W2N \cong 2U2N$
1V1W	5.31	10.03	4.74	$2U2N + 2W2N \cong 2V2N$
1W1U	3.07	7.06	10.16	$2U2N + 2V2N \cong 2W2N$

Conclusion: There is no magnetic imbalance found.

For Comfort Insta Power Ltd.

(Nirav Patel)

For Excel Crop Care Limited

(B. V. Patel)

(P. A. Kalivada)

For Shreeji Engineering

(Suresh Sharma)

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