



FREQUENCY CONVERTER SPECIFICATION
GEORATOR CORPORATION
MANASSAS, VIRGINIA 20110

Model No. 33-016

Type 37-A Vertical Frequency Converter

1.0 INPUT:

- 1.1 Motor: AC Induction, 5 H.P., 3 Phase, 50 Hz, 1450 RPM (Nom.)
- 1.2 Input Voltages: 220/380VAC
- 1.3 Connection: 6 Leads Re-Connectable
- 1.4 Input Current: 15/8.7 Amps Approx.
- 1.5 Insulation: Class B

2.0 OUTPUT:

- 2.1 Generator: Permanent Magnet Excitation
- 2.2 Rating: 3.0 kVA, 100% PF, 3 Phase
- 2.3 Output Frequency: 400Hz Nom.
 - 2.3.1 Tolerance: 400Hz @ N.L., 390Hz Min. @ F.L.
- 2.4 Output Voltage:
 - 2.4.1 No Load: 124 ±1VAC L-N
 - 2.4.2 Full Load: 115/200VAC (Nom.) 4W Wye, or 115VAC (Nom.) 3W Delta; Re-Connectable
 - 2.4.3 Stability: Within ±1%, for constant Load and constant Input Frequency.
Less than 1% for Input Voltage Variation of ±10%
 - 2.4.4 Waveform: Total Harmonic Distortion less than 4%
 - 2.4.5 Regulation: Inherent. For 100% PF Loads within 10% Envelope from N.L. to F.L.
- 2.5 Output Current: 8.7 Amps (Wye Connection), or 15 Amps (Delta)
- 2.6 Insulation: Class B

3.0 GENERAL SPECIFICATIONS:

- 3.1 Construction: Common Vertical Shaft, Double Bearing
- 3.2 Duty: Continuous
- 3.3 Max. Amb. Temp.: 50 °C
- 3.4 Cooling: Self Circulated Air via rotor mounted internal Fan. NEMA IC01
- 3.5 Rotation: Reversible by electrical reconnection of Input
- 3.6 Dielectric Strength: Winding to Frame: 1500 V for 1 Min.
- 3.7 Vibration: Within 0.0015"
- 3.8 Bearings: Shielded Life Time Lubricated Ball Bearings
- 3.9 Finish:
 - 3.9.1 Primer: Modified Alkyd Resin
 - 3.9.2 Paint: Silver-Blue Enamel
- 3.10 Approx. Weight: 270 Lbs. (Net); Shipping: 350 Lbs. Approx.

Rev.	Date	Revision Description
A	1/31/01	Retyped, New format – Orig. Date 10/14/77; Primer was Zinc Chromate; Weight added para3.10
B	08/17/01	ADDED NOTES 5.1 & 5.2
ENGINEER	B.S.O.	
APPROVED BY	J.R.	08/17/01