



FREQUENCY CONVERTER SPECIFICATION  
GEORATOR CORPORATION  
MANASSAS, VIRGINIA 20110

**Model No. 30-010-1**  
**Type 13-A Unit Shell Converter**

1.0 INPUT:

- 1.1 **Motor:** AC Induction, 1/2 H.P., 3 Phase, 60 Hz, 3,500 RPM (Nom.)
- 1.2 **Input Voltages:** 600VAC
- 1.3 **Input Current:** 0.7 Amps Approx.
- 1.4 **Insulation:** Class B

2.0 OUTPUT:

- 2.1 **Generator:** Permanent Magnet Excitation
- 2.2 **Rating:** 0.25 kVA, 100% PF, 1 Phase
- 2.3 **Output Frequency:** 420Hz @ N.L., 408Hz Min. @ F.L.
- 2.4 **Output Voltage:**
  - 2.4.1 No Load: 124 ±2VAC, L-N, Approx.
  - 2.4.2 Full Load: 115VAC (Nom.), Approx.
  - 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 8%
  - 2.4.5 Regulation: Inherent. For 100% PF Loads within 10% Envelope from N.L. to F.L.
- 2.5 **Output Current:** 2.2 Amps
- 2.6 **Insulation:** Class B

3.0 GENERAL SPECIFICATIONS:

- 3.1 **Construction:** Common Horizontal Shaft, Double Bearing, Contained in a single Aluminum Alloy Housing
- 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 0.001"
- 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:** 43 Lbs. (Net); Shipping: 56 Lbs. Approx.

Rev.	Date	Revision Description
ENGINEER	M.T.E.	
APPROVED BY		4/12/2000