



**FREQUENCY CONVERTER SPECIFICATION**  
**GEORATOR CORPORATION**  
 MANASSAS, VIRGINIA 20110

Model No. 39-009

Type 33-A Vertical Frequency Converter & Back Iron Regulator

1.0 INPUT:

- 1.1 Motor, Rotor & Stator: Reliance, Frame 254T, Georator P/N 18-538; 7.5 H.P., 3 Phase, 50 Hz, 240/415V, 6 Wire, 1450 RPM (Nom.)
- 1.2 Input Current: 20.8/12 Amperes
- 1.3 Insulation: Class B
- 1.4 Max. Ambient Temperature: 40 C
- 1.5 Duty: Continuous

2.0 OUTPUT:

- 2.1 Rating: 5.0 KVA, 80% PF, 1 Phase, 400 Hz (Nom.), 115V
- 2.2 Output Voltage, No Load; AC Values Before Regulation & Rectification:
  - (A) Power Winding: Approx. 149 +/-1V L-N
  - (B) Control Winding: Approx. 60 +/-IV L-L
- 2.3 Output Frequency Tolerances: 400 Hz @ N.L. To 388 Hz @ F.L.
- 2.4 Voltage Regulation: +/- 1.5% N.L. To F.L.
- 2.5 Voltage Adjustment: +/- 5%
- 2.6 Output Current Rating: 43.5 Amperes
- 2.7 Insulation: Class B
- 2.8 Max. Ambient Temperature: 40 C
- 2.9 Dielectric Strength, Winding To Frame: 1500V For 1 Min.

3.0 VIBRATION: Within 0.0015

4.0 BEARINGS: Shielded, Life Time Lubricated Motor Bearings

5.0 FINISH:

- 5.1 Primer: Alkyd, Red Iron Oxide, Fed Std TT-P-664D
- 5.2 Paint: Silver-Blue Enamel

6.0 WEIGHT:

- 6.1 Net: 355 Lbs.
- 6.2 Shipping: 430 Lbs.

Revision Letter	Date	Revision Description
ENGINEER	M.T.E.	
APPROVED BY		April 20, 1998