



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

Model No. 39-015-1

Type 25-A Voltage Regulated Vertical Frequency Converter

**1.0 INPUT:**

- 1.1 Motor: AC Induction Fr. 284T, 25 H.P., 3 Phase, 60 Hz, 1750 RPM
- 1.2 Input Voltages: 190/380VAC
- 1.3 Input Current: 80/40 Amps Approx.
- 1.4 Insulation: Class B

**2.0 OUTPUT:**

- 2.1 Generator: Permanent Magnet Excitation
- 2.2 Rating: 15 kVA, 80% to 100% PF, 3 Phase
- 2.3 Output Frequency: 400Hz Nom. Tolerance: 420Hz @ N.L., 410Hz Min. @ F.L.
- 2.4 Output Voltage:
  - 2.4.1 No Load: AC Values before Regulation and Rectification:
    - (A) Power Winding: 144VAC ±2V L-N
    - (B) Control Winding: 59VAC ±2V L-L
  - 2.4.2 Full Load: 120/208VAC 4W Wye, or 120VAC 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 (THD) less than 5%
  - 2.4.5 Regulation: Electronic Control; ±1.5% from N.L. to F.L.
  - 2.4.6 Adjustment: ±5%
- 2.5 Output Current: 41.6 Amps (Wye Connection), or 72 Amps (Delta)
- 2.6 Insulation: Class B

**3.0 GENERAL SPECIFICATIONS:**

- 3.1 Construction: Common Vertical Frequency Shaft, Double Bearing, Contained in Aluminum Alloy Mot. Housing (Top), and Gen. Housing (Bottom)
- 3.2 Duty: Continuous
- 3.3 Max. Amb. Temp.: 40 °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
  - 3.9.3 Fasteners: Zinc Plated
- 3.10 Approx. Weight:
  - 3.10.1 Net: 530 Lbs.
  - 3.10.2 Shipping: 620 Lbs.

Rev.	Date	Revision Description
ENGINEER	M.T.E.	
APPROVED BY		9/6/2000