



### **FREQUENCY**

60 Hz or 50 Hz other values on request.

### **AVAILABLE RATED BURDENS AND ACCURACY CLASSES**

Maximum rating offered in accordance with IEEE and at 60 HZ for two tapped secondary windings is 0.3WXYZ.

### **THERMAL RATING**

Up to 2000 VA continuously

### **VOLTAGE FACTOR**

Up to 1.2 continuously and 1.9 for 8 hours.

### **AMBIENT AIR TEMPERATURES**

The standard design is suitable for a daily mean temperature of +35°C and a minimum temperature of -35°C. Other ambient temperature ranges can be provided on request, e.g. a range for -50°C to +50°C.

### **MECHANICAL STRENGTH**

Static test load (applied on the primary terminal in any direction) of 1120 Lbf. (5000 N). VEF 72.5 suitable for vertical (upright) mounting only. In case horizontal mounting is required please inquire about the Ritz type GSEF 72.5.

### **EARTHQUAKE-PROOF DESIGN**

The standard design is earthquake-proof up to 0.5g. More stringent seismic design criteria can be achieved on special request.

### **TESTS**

Routine tests in compliance with IEEE or other standard. Measurement of internal partial discharges is performed as a routine test on each unit. Max. permissible PD-level: (20 pC at 1.2 Vm/ $\sqrt{3}$ , 50 pC at 1.2 Vm).

### **CONSTRUCTION**

Post-type design: The core and coil assembly is encapsulated in cycloaliphatic epoxy resin in a single process under vacuum using the pressure gelation method. The color of resin is grey. Brown resin available by special request. Benefits to this design include:

- \* Elimination of oil from substation
- \* Excellent tracking resistance
- \* Practically inflammable
- \* Good ability to withstand ultra-violet rays
- \* High mechanical strength
- \* Corrosion and maintenance free

### **PRIMARY TERMINAL**

The standard primary terminal is a flat tin plated copper 4 hole nema pad. Alternate terminal configurations can be considered.

### **SECONDARY TERMINAL BOX**

The secondary terminal box is made of cast aluminum. The cover is sealable. The terminals of brass are clamp type for #14 through #3 wire. Two threaded 1" horizontal hubs with pipe plugs are provided for making connection to 1" conduit.

### **H2 NEUTRAL TERMINAL**

H2 is insulated to withstand 19 kV test level. Can be disconnected from external ground for power factor measurement.

### **NAMEPLATE**

Standard nameplates are made of aluminum with markings applied by metal photo process.

### **BASE**

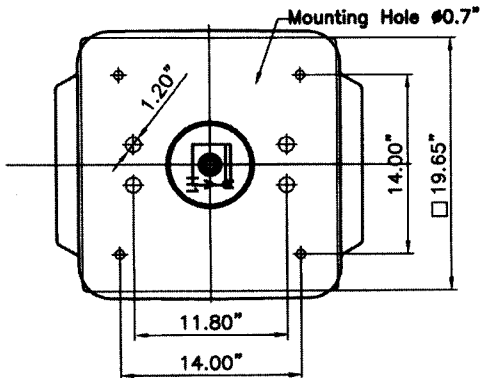
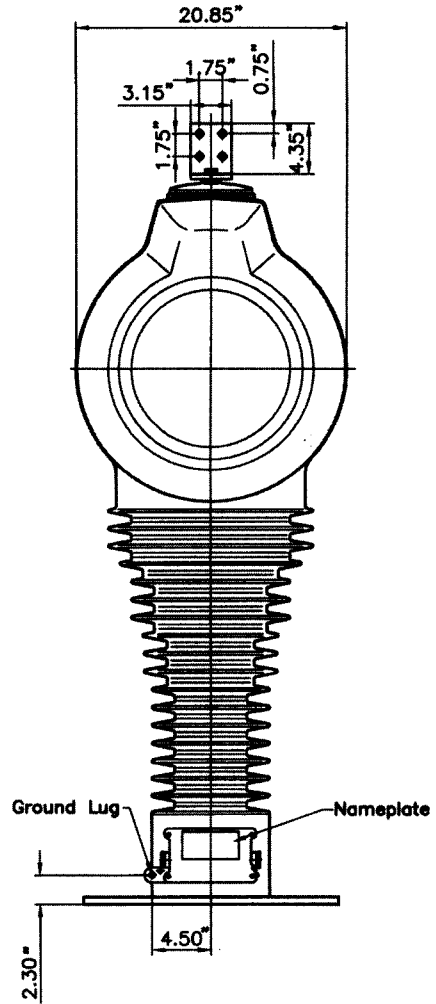
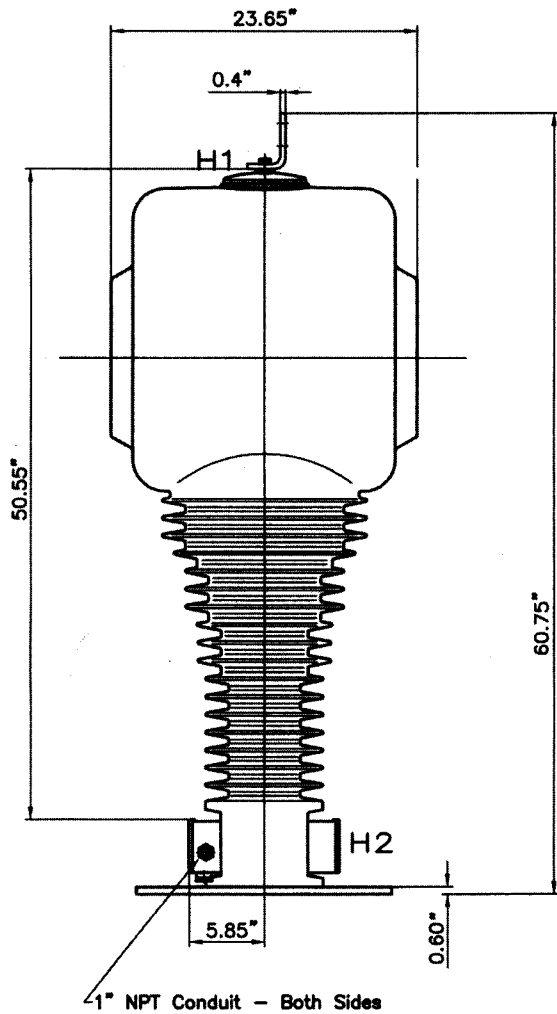
Bottom plate is made of corrosion resistant aluminum.

### **GROUNDING**

A ground lug designed to accept a one-hole ground connector is provided as an integral part of the terminal box.

### **COMMISSIONING AND MAINTENANCE**

The voltage transformers are supplied ready for service. Just connect to system. No additional installation work or special tools are necessary. Instruction manuals are provided with the units. Periodic wiping down of the units with silicone grease is recommended.



Maximum System Voltage	72.5 kV
Power Freq. Withstand Volt.	140 kV
Basic Impulse Level	350 kV
Creepage Distance	102.3"
Strike Distance	51.5"
Weight	640 lbs



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