

Type PSG-981 generator current transformer Indoor or outdoor

Product features

- 600 volt, 10 kV BIL
- Single ratios
- Window type

Application

The PSG-981 indoor/outdoor, generator current transformer (CT) is a 600 volt, 10 kV BIL rated unit and designed to fit over a variety of specified generator bushing sizes. The insulation of the bushing provides the dielectric protection for the CT. Primary current ratios are available up to 50000:5 (as well as up to 25,000:1) at 50 and/or 60 Hertz (Hz), with a typical rating factor of 1.0 @ 55°C. The unit is ideal for new installations or for quick replacement/retrofit on older generators. This dry-type, solid-cast CT will operate with high accuracy for metering and/or relay applications.

Mechanical description

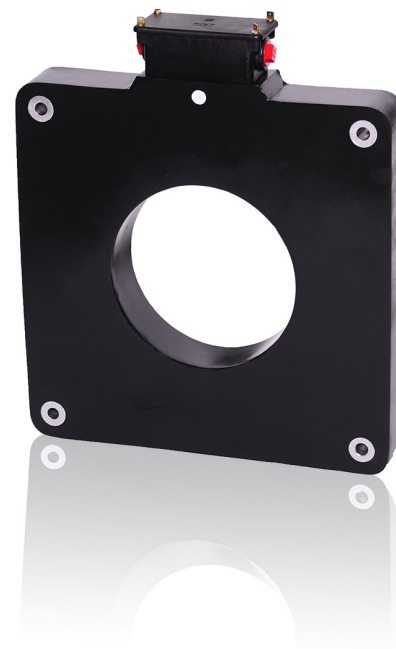
The core and coil assembly is wound and encapsulated in a molded cast resin with various window sizes from 6" up to 41". The CT has an internally shielded winding to minimize the effects of stray flux from adjacent current carrying conductors. The secondary terminals are ¼"-20 studs with associated hardware located inside a removable terminal box with two (2) 1" NPT conduit hubs (1.5" NPT is also available). The unit is moisture resistant and can withstand direct water spray equivalent to 1" of rain per hour for two hours and remain dielectrically sound.

Accuracy performance

The PSG-981 provides 0.3 class (0.2S IEC) or 0.15 class accuracy for metering with burdens of B-0.1 to B-1.8 (45 VA IEC) and up to C800 (5P20-200VA IEC) for some relay applications. The transformer is accurate through its rating factor and can be used continuously to this level.

Mounting

The PSG-981 is designed for mounting over a generator bushing. Mounting holes are located in the four corners of the housing to application specific sizes. The unit can be mounted at any angle. Note: this CT is not limited to bushings, but can be used in ISO phase compartments.



Testing

The PSG-981 is individually tested per the IEEE C57.13 and/or IEC 60044-1 standard, including dielectric, accuracy, and polarity tests. The unit can be tested per IEC 60044-6 when applicable.

Options

PSG-981 CTs can be stacked on top of one another, but it is highly recommended that some space exists to allow for air circulation and cooling. Through careful calculation, steel selection, and testing, existing current transformer characteristics can be matched. Existing characteristic curves are required. Contact factory for other needs.

How to order PSG-981:

When ordering molded resin generator CTs, include the following information:

- Minimum inside diameter (ID): _____ in. [mm]
- Maximum outside diameter (OD): _____ in. [mm]
- Maximum allowable height (HT): _____ in. [mm]
- Current ratio: _____ (:5 A or :1 A)
- Number of cores: _____ (1, 2, or 3)
- Accuracy and burden requirements, for example:
 - Metering: _____ (IEEE C57.13 or IEC 60044-1)
 - Relaying: _____ (IEEE C57.13 or IEC 60044-1)
- Continuous rating factor: _____ (std. is RF=1.0 @ 55°C)
- Mounting hole arrangement: _____ size - _____ (e.g. 34" BC, (4) 3/4" diameter holes)
- Frequency: _____ (50, 60 Hz, or other)
- Conduit box hub size: _____ (std is 1" NPT)

Note: units are custom manufactured to customer specifications. Contact factory to discuss other options not shown above.

For more information please contact:

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Note:

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