RITZ INSTRUMENT TRANSFORMERS, INC.

Instrument Transformers

Current Transformers

GIFU 15-01L

General Description

Ritz manufactures an extensive line of cast epoxy resin insulated transformers across the voltage range of 5.5 kV to 72.5 kV. This brochure describes outdoor Current Transformers in the 15kV class with performance ratings coinciding with industry standard product offerings. Ritz, because of product depth, familiarity with international standards and custom design capability can also design a solution to your specific needs.

Construction

The toroidal core and winding assembly is encapsulated in cycloaliphatic epoxy resin in a single process, performed under vacuum, using the pressure gelation method. The resin color is grey. Brown is available by special order. Epoxy resin was chosen because of its excellent tracking resistance, high mechanical strength, ability to withstand ultraviolet radiation, superior weathering characteristics and its noncombustibility.

Thermal & Dynamic Rating

For designs up to 600A the short time thermal rating is 100 times nominal current for 1 second and above 600A it is 60kA/1second. The dynamic short time rating is 2.5 times the thermal rating.

Primary Terminals

Primary terminals are flat tin plated copper NEMA two hole pads. Primary terminals are detachable so that alternate terminal configurations can be considered.

Secondary Terminals

Secondary terminals are bronze clamp type with a large diameter hole. A bronze pivoting short circuit device is an integral part of the secondary terminal arrangement. A ground terminal is also provided.

Terminal box

The cast aluminum terminal box has one inch conduit hubs on both ends and a knock out for a one inch conduit fitting on the bottom. The box is attached to the transformer body by four bolts in an industry standard pattern and can easily be detached, simplifying change out procedures.

Base Plate

The base is made of marine grade aluminum and is securely attached to the transformer body. Industry standard mounting dimensions and a single hole ground pad 90° to the mounting plate are provided.

Nameplates

Nameplate data is engraved on blackened stainless steel plates

Mounting

The transformers can be mounted in the horizontal, vertical or suspended position.

Tests

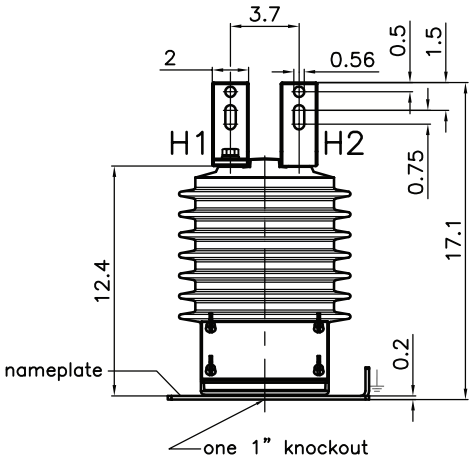
Routine tests in compliance with IEEE are standard. In addition internal partial discharge is performed as a routine test with acceptance criteria of < 20pC at 1.2Vm/√3 and <50pC at 1.2 Vm. Test cards are included with each unit.

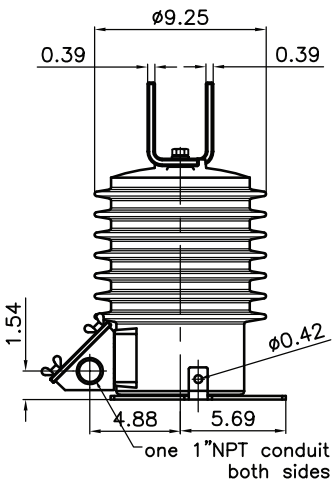
Commissioning and Maintenance

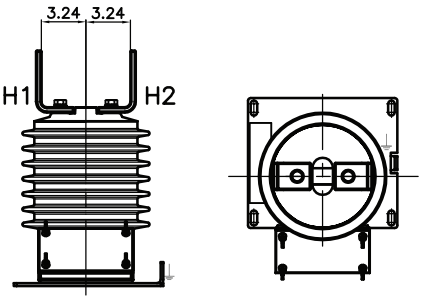
Transformers are supplied ready for service. No special tools are required. Instruction manuals are provided with each shipment.

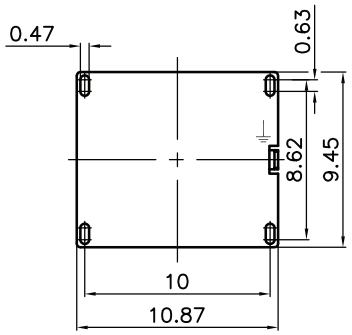
CURRENT TRANSFORMER TYPE : GIFU 15-01L

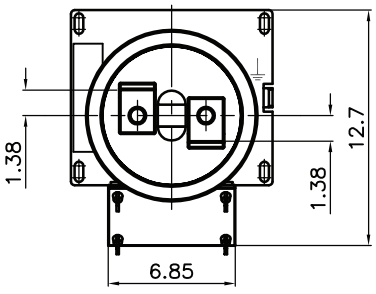
Current Ratio (A)	Catalog Number	IEEE Accuracy Class 60 Hz Meter	Rating Factor
5:5	112026103 84514	0.3B-0.5	3.0
10:5	112026103 84515	0.3B-0.5	3.0
15:5	112026103 84516	0.3B-0.5	3.0
20:5	112026103 84517	0.3B-0.5	3.0
25:5	112026103 84518	0.3B-0.5	3.0
30:5	112026103 84519	0.3B-0.5	3.0
40:5	112026103 84520	0.3B-0.5	3.0
50:5	112026103 84521	0.3B-0.5	3.0
75:5	112026103 84522	0.3B-0.5	3.0
100:5	112026103 84523	0.3B-0.5	3.0
150:5	112026103 84524	0.3B-0.5	3.0
200:5	112026103 84525	0.3B-0.5	3.0
300:5	112026103 84526	0.3B-0.5	3.0
400:5	112026103 84527	0.3B-0.5	3.0
500:5	112026103 84528	0.3B-0.5	3.0
600:5	112026103 84529	0.3B-0.5	3.0
800:5	112026103 84530	0.3B-0.5	1.5
1000:5	112026103 84531	0.3B-0.5	1.5
1200:5	112026103 84532	0.3B-0.5	1.5
200:5 ERCT	112026103 149030	0.15B-1.8 1% to 150% Rated Current	1.5
1000:5 ERCT	112026103 149031	0.15B-1.8 1% to 150% Rated Current	1.5











Maximum System Voltage	15.5 kV
Power Freq. Withstand Volt.	34 kV
Basic Impulse Level	110 kV
Creepage Distance	19.1"
Strike Distance	9.0"
Weight	50 lbs
Cantilever Strength	1100 lbs
Small deviations in weight and dimensions are possible.	

Dimensions in Inches

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