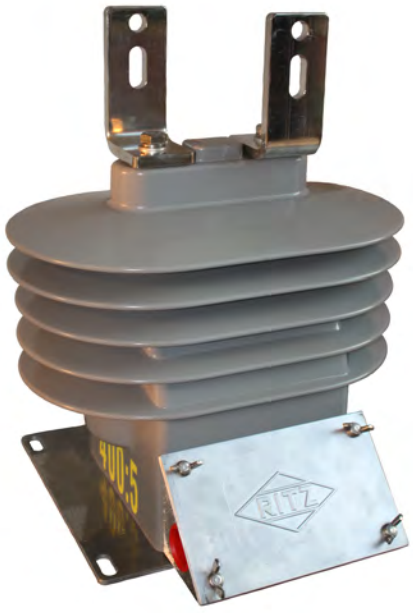
RITZ INSTRUMENT TRANSFORMERS, INC.

Instrument Transformers

Current Transformers

GIFU 15-03



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 stainless steel plates.

Mounting

The transformer 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.

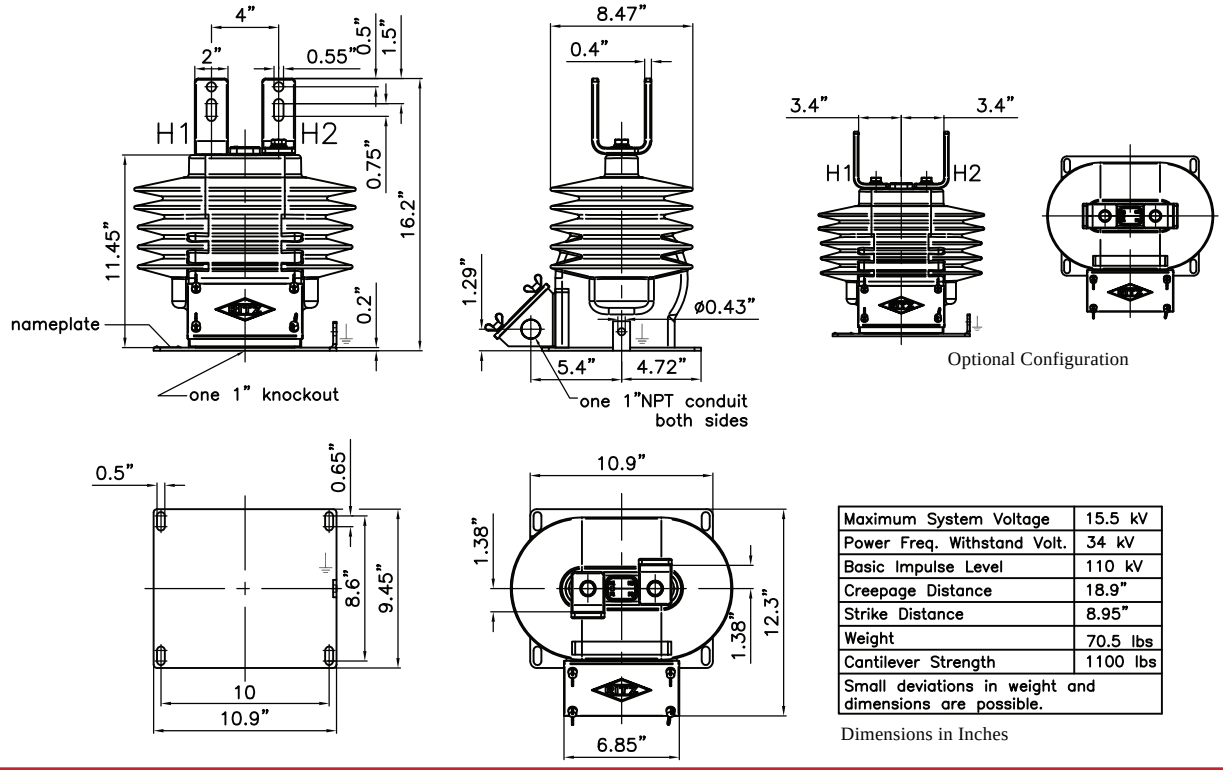
Commissioning and Maintenance

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

CURRENT TRANSFORMER TYPE : GIFU 15-03

Current Ratio (A)	Catalog Number	IEEE Accuracy Class 60 Hz		Rating Factor
		Meter	Relay	
5:5	111553003 149000	0.3B-1.8	C200	1.5
10:5	111553003 149001	0.3B-1.8	C200	1.5
15:5	111553003 149002	0.3B-1.8	C200	1.5
20:5	111553003 149003	0.3B-1.8	C200	1.5
25:5	111553003 149004	0.3B-1.8	C200	1.5
30:5	111553003 149005	0.3B-1.8	C200	1.5
40:5	111553003 149006	0.3B-1.8	C200	1.5
50:5	111553003 149007	0.3B-1.8	C200	1.5
75:5	111553003 149008	0.3B-1.8	C200	1.5
100:5	111553003 149009	0.3B-1.8	C200	1.5
150:5	111553003 149010	0.3B-1.8	C200	1.5
200:5	111553003 149011	0.3B-1.8	C200	1.5
300:5	111553003 149012	0.3B-1.8	C200	1.5
400:5	111553003 149013	0.3B-1.8	C200	1.5
600:5	111553003 149014	0.3B-1.8	C200	1.5
800:5	111553003 149015	0.3B-1.8	C200	1.5
1000:5	111553003 149016	0.3B-1.8	C200	1.5
1200:5	111553003 149017	0.3B-1.8	C200	1.5
5/10:5	111553003 149018	0.3B-0.9/1.8	C90/C200	2.0/1.5
10/20:5	111553003 149019	0.3B-0.9/1.8	C90/C200	2.0/1.5
20/40:5	111553003 149020	0.3B-0.9/1.8	C90/C200	2.0/1.5
25/50:5	111553003 149021	0.3B-0.9/1.8	C90/C200	2.0/1.5
50/100:5	111553003 149022	0.3B-0.9/1.8	C90/C200	2.0/1.5
75/150:5	111553003 149023	0.3B-0.9/1.8	C90/C200	2.0/1.5
100/200:5	111553003 149024	0.3B-0.9/1.8	C90/C200	2.0/1.5
150/300:5	111553003 149025	0.3B-0.9/1.8	C90/C200	2.0/1.5
200/400:5	111553003 149026	0.3B-0.9/1.8	C90/C200	2.0/1.5
300/600:5	111553003 149027	0.3B-0.9/1.8	C90/C200	2.0/1.5
400/800:5	111553003 149028	0.3B-0.9/1.8	C90/C200	2.0/1.5
600/1200:5	111553003 149029	0.3B-0.9/1.8	C90/C200	2.0/1.5

* See type GIFU15-01L for MV ERCT ratings.



Maximum System Voltage	15.5 kV
Power Freq. Withstand Volt.	34 kV
Basic Impulse Level	110 kV
Creepage Distance	18.9"
Strike Distance	8.95"
Weight	70.5 lbs
Cantilever Strength	1100 lbs
Small deviations in weight and dimensions are possible.	

Dimensions in Inches

RITZ

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