

GF106FY

Current Transformer & Voltage Transformer Burden Box

The GF106FY-1 Current transformer burden box is applicable to current transformer accuracy testing bench as secondary load of test object CT, its series connection to the secondary winding of test object CT. This product of GF106FY-2 is applicable to voltage transformer accuracy testing bench as secondary load of test object PT, its parallel connection to the secondary winding of test object PT. It is used in conjunction with a current and voltage transformer test bench to test the accuracy of CT or PT. According to IEC60044-1,2, IEC61869-1,2,3 and IEEE/ANSI C57.13 standard, meeting 17025 electrical laboratory.

Application

1. Electrical laboratory;
2. Metrological service center;
3. ISO17025 electrical laboratory;
4. Electricity power bureau & power company;
5. National Metrology and testing department;
6. Power engineering commissioning company;
7. Current transformer and voltage transformer factory;
8. Electrical Department of industrial and mining enterprises;

Standard

1. ANSI/IEEE C57.13;
2. IEC60044-1, IEC60044-2, IEC60044-6;
3. GB1207-2006, GB1208-2006, GB16847-1997;
4. IEC61869-1, IEC61869-2, IEC61869-8, IEC61869-10, IEC61869-14;



Parameters

Electrical parameters

Current transformer burden box

Accuracy class	3
Rated Current	5A, 1A
Power Factor and Rated Capacity IEC60044-1/IEC61869-2	COS Φ =0.8: 2.5/3.75/5/6.25/7.5/10/12.5/15/20/30/40/50/60VA COS Φ =1.0: 2.5/3.75/5/6.25/7.5/10VA
Power Factor and Rated Capacity ANSI / IEEE C57.13	COS Φ = 0.5: 25VA, 50VA, 100VA, 200VA COS Φ = 0.9: 2.5VA, 5VA, 12.5VA, 22.5VA, 45VA
Operation Frequency	50Hz, 60Hz
Operating Range	(1%-200%) I _n
Test Cable Resistance	0.06 Ω
Withstand Voltage	2000V 1min
Dimension(mm)	400×285×240
Weight (kg)	12

Voltage transformer burden box

Accuracy class	3
Rated Voltage	100V, 100/ $\sqrt{3}$ V, 100/3V 110V, 110/ $\sqrt{3}$ V, 110/3V 115V, 115/ $\sqrt{3}$ V, 115/3V 120V, 120/ $\sqrt{3}$ V, 120/3V
Rated Capacity IEC60044-2/IEC61869-1,3	1.25VA, 2.5VA, 5VA, 10VA, 20VA, 40VA, 80VA 1.25VA, 2.5VA, 5VA, 10VA, 20VA, 40VA, 50VA, 80VA 1.25VA, 2.5VA, 5VA, 10VA, 20VA, 40VA, 50VA, 80VA, 100VA
Total Capacity IEC60044-2/IEC61869-1,3	158.75VA 208.75VA 308.75VA
Power Factor	COS Φ =0.8, 1.0
Power Factor and Rated Burden (VA) ANSI / IEEE C57.13	COS Φ =0.1: 12.5VA (W) COS Φ =0.2: 35VA (M) COS Φ =0.7: 25VA (X) COS Φ =0.85: 25VA/ 75VA /100VA /100VA /100VA (Total Capacity 400VA, Included Y, Z, ZZ)
Operation Frequency	50Hz, 60Hz
Operating Range	(20%-120%) U _n
Test Cable Resistance	0.06 Ω
Withstand Voltage	2000V 1min
Dimension(mm)	400×285×240
Weight (kg)	14

Standards

Reference standards	GB1207-2006, GB1208-2006, GB16847-1997 IEC60044-1, IEC60044-2,6, IEC61869, ANSI/IEEE C57.13
Safety standards	GB 4793.1-2007
EMC	EMC standard 89/336/EEC FCC Subpart B of Part 15 Class A IEC 1000-4-2/3/4/6

Environmental conditions

Relative humidity	Relative humidity 5%-90% not condensing
Operating temperature	10°C to +40°C
Storage temperature	-20°C to +60°C