



## Current Transformers for GWTA Electronic Wathour Meters

The GREWIN GWTA series of miniature current transformers for electronic wathour meters are designed for applications where high-precision and minimal phase angle error watt-hour metre ect. electric energy measur-ment device .

A new TA model can be designed and manufactured to meet the specific design challenges of the client's specific application. The following models are only a small sampling of the many different products which have been and are currently being manufactured.



### ■ FEATURES

- Low cost
- Small size
- More than 30 standard sizes
- High accuracy, wide linear range, good consistency
- Terminal: PCB Mounted or Lead
- Toroidal Nanocrystalline and Nickel Alloy cores available

### ■ APPLICATIONS

- Used for high precision small phase error requirements such as electricity meter electric energy metering device

### ■ SPECIFICATIONS

- Exterior Material: PBT Resin UL flame retardant rating 94-V0
- Interior Insulation: Epoxy Encapsulated
- Isolation Current: 2500 Vrms for 1 minute
- Dielectric Resistance: 1000 M Ohms @ 500 Vdc
- Surge Withstand: 5000V (1.2/50 $\mu$ s standard shock wave) optional
- Operating Temperature: -25 to +55 $^{\circ}$ C, -40 to +85 $^{\circ}$ C optional
- Frequency: 50 to 400 Hz
- Accuracy Class: as defined in IEC 60044-1 Part 1 Current Transformers Class 0.1, 0.2
- RoHS Compliant



# Tianjin Grewin Technology Co.,Ltd

## ■ PERFORMANCES

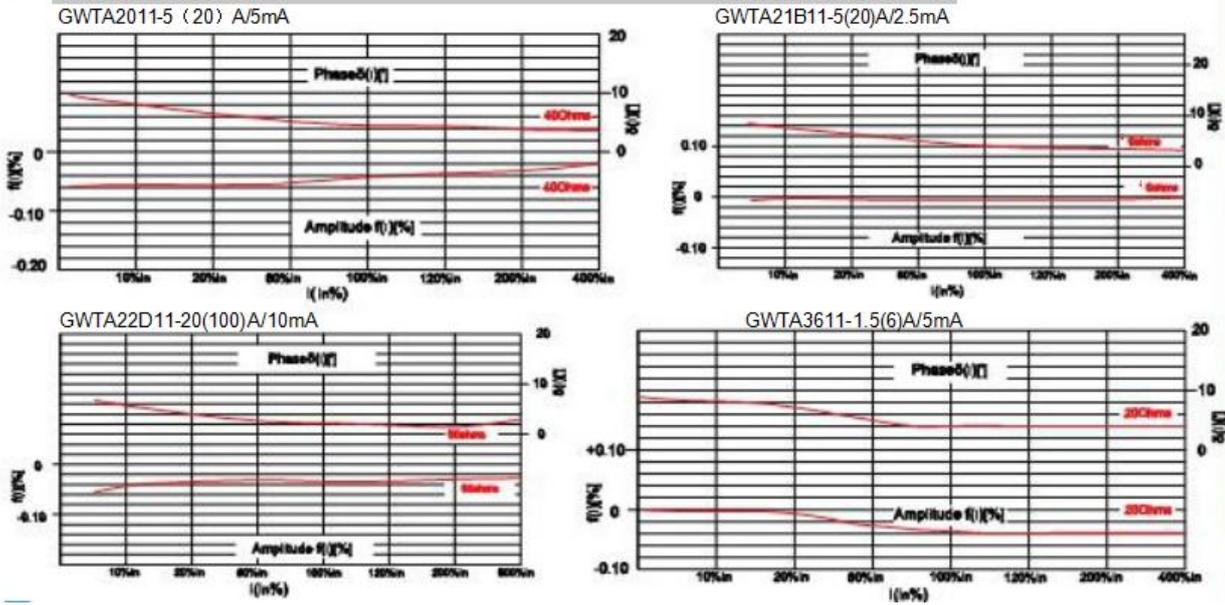
Part Number	Rated(max) input current(A)	turn ratio	Frequency (HZ)	Secondary Burden (Ohms)	Accuracy Class	Outline Dimensions ID-L-W-H(mm)	Output Mold
GWTA2011	5(20),5(50) 10(40),15(60)	1000:1 1500:1 2000:1	50 - 400	≤20	0.1 0.2	8.0-26.0-13.5-28.6	Lead
GWTA21A11	5(20),5(50) 10(40),15(60)	1000:1 2000:1 2500:1	50 - 400	≤40	0.1 0.2	6.7-23.5-11.5-25.0	Lead /Pin
GWTA21B11	5(20), 5(50) 10(40), 5(60)	1000:1 2000:1 2500:1	50 - 400	≤40	0.1 0.2	6.7-23.5-11.5-25.0	
GWTA22B11	5(20),5(50) 10(40),20(80)	1000:1 2000:1 2500:1	50 - 400	≤50	0.1 0.2	8.7-26.0-17.5-27.5	
GWTA22D11	5(50), 10(40) 10(60),20(80)	1000:1 2000:1 2500:1	50 - 400	≤50	0.1 0.2	8.0-19.5-18.5-30.0	
GWTA22E11	5(50), 10(60) 10(100),20(120)	1000:1 2000:1 2500:1	50 - 400	≤50	0.1 0.2	12.8-36.7-14.2-38.5	
GWTA2411	5(50), 10(40) 20(80),20(100)	1000:1 2000:1 2500:1	50 - 400	≤50	0.1 0.2	9.0-41.0-18.5-30.0	
GWTA24B11	5(20),5(50) 10(40),15(60)	1000:1 1500:1 2000:1	50 - 400	≤40	0.1, 0.2	6.0-41.0-15.0-28.0	
GWTA3611	10(60),15(60) 10(100),20(80)	500:1 1000:1 2000:1	50 - 400	≤40	0.1, 0.2	L-W-H 32.0-30.0-34.0	Lead
GWTA36A11	1.5(6)A	150:1,250:1 300:1,1000:1	50 - 400	≤40	0.1, 0.2	L-W-H 32.0-30.0-34.0	
GWTA36B11	1.5(6)A	150:1,250:1 300:1,1000:1	50 - 400	≤40	0.1, 0.2	L-W-H 28.0-30.0-32.0	
GWTA20DB11	5(20),5(50) 10(40),15(60)	1000:1 2000:1 2500:1	50 - 400	≤40	0.1 0.2	L-W-H 38.0-12.0-29.0	
GWIA20EA11	5(20),5(50) 10(40),15(60)	1000:1 1500:1 2000:1	50 - 400	≤40	0.1, 0.2	L-W-H 30.0-30.0-45.0	

Note:5(20)means rated current 5A,after extensive range and on the premise of precision hold continuous working current.

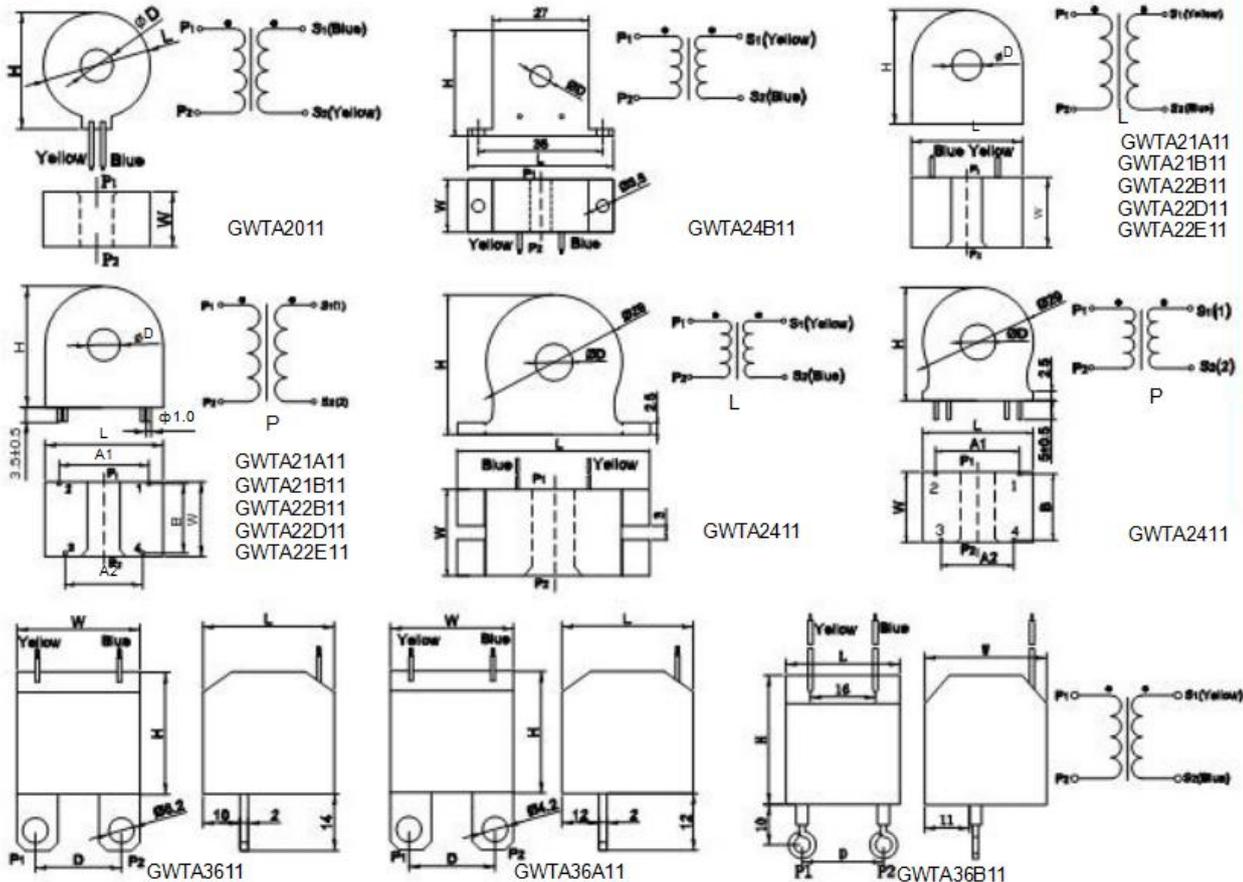
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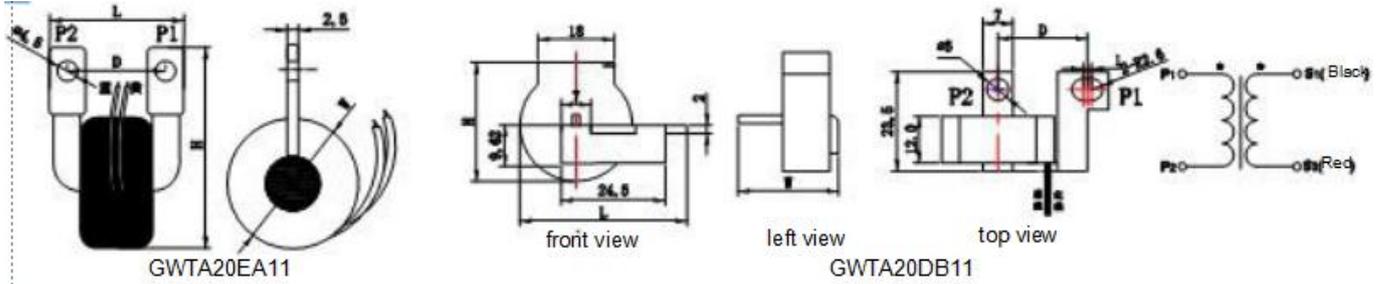
■ Typical Impedance Dependence of Phase and Amplitude Errors (Test temperature 25° C)



■ OUTLINE DRAWINGS



## OUTLINE DRAWINGS



## OUTLINE DIMENSIONS

Model	L	W	H	A <sub>1</sub>	A <sub>2</sub>	B	D
GWTA2011	26.0(1.024)	13.5(0.531)	29.0(1.142)	---	---	---	8.0(0.315)
GWTA21A11	23.5(0.925)	11.5(0.453)	25.0(0.984)	15.1(0.594)	19.0(0.748)	9.7(0.382)	6.9(0.272)
GWTA21B11	23.5(0.925)	11.5(0.453)	25.0(0.984)	15.24(0.600)	19.05(0.750)	10.16(0.400)	6.7(0.264)
GWTA22B11	26.0(1.024)	17.5(0.689)	27.5(1.083)	15.24(0.600)	17.78(0.700)	16.0(0.630)	8.7(0.343)
GWTA22D11	29.5(1.161)	19.0(0.748)	30.0(1.181)	22(0.866)	19.0(0.748)	17.5(0.689)	8.0(0.315)
GWTA22E11	36.7(1.445)	14.2(0.559)	38.5(1.516)	25.2(0.992)	32.8(1.291)	11.5(0.453)	12.8(0.504)
GWTA2411(L)	41.0(1.614)	18.5(0.728)	30.0(1.181)	---	---	---	9.0(0.354)
GWTA2411(P)	29.0(1.142)	18.5(0.728)	30.0(1.181)	22.0(0.866)	19.0(0.748)	17.5(0.689)	9.0(0.354)
GWTA24B11	41.0(1.614)	15.0(0.591)	30.0(1.181)	---	---	---	6.0(0.236)
GWTA3611	32.0(1.260)	30.0(1.181)	34.0(1.339)	---	---	---	20.0(0.787)
GWTA36A11	32.0(1.260)	30.0(1.181)	34.0(1.339)	---	---	---	20.0(0.787)
GWTA36B11	28.0(1.102)	30.0(1.181)	32.0(1.260)	---	---	---	20.0(0.787)
GWTA20DB11	38.0(1.496)	12.0(0.472)	29.0(1.142)	---	---	---	20.0(0.787)
GWTA20EA11	30.0(1.181)	30.0(1.181)	45.0(1.772)	---	---	---	21.0(0.827)