

Current Transformers for AC Electronic Watthour Meters

Single Phase for AC Electronic Watthour meters

The YUANXING AC series of miniature current transformers for electronic watthour meters are designed for applications where high-precision and minimal phase angle error watt-hour metre ect. electric energy measurement 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 μ 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

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
TA2011	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
TA21A11	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
TA21B11	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	
TA22B11	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	
TA22D11	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	
TA22E11	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	
TA2411	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	
TA24B11	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	Lead
TA3611	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	
TA36A11	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	
TA36B11	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	
TA20DB11	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	
TA20EA11	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.

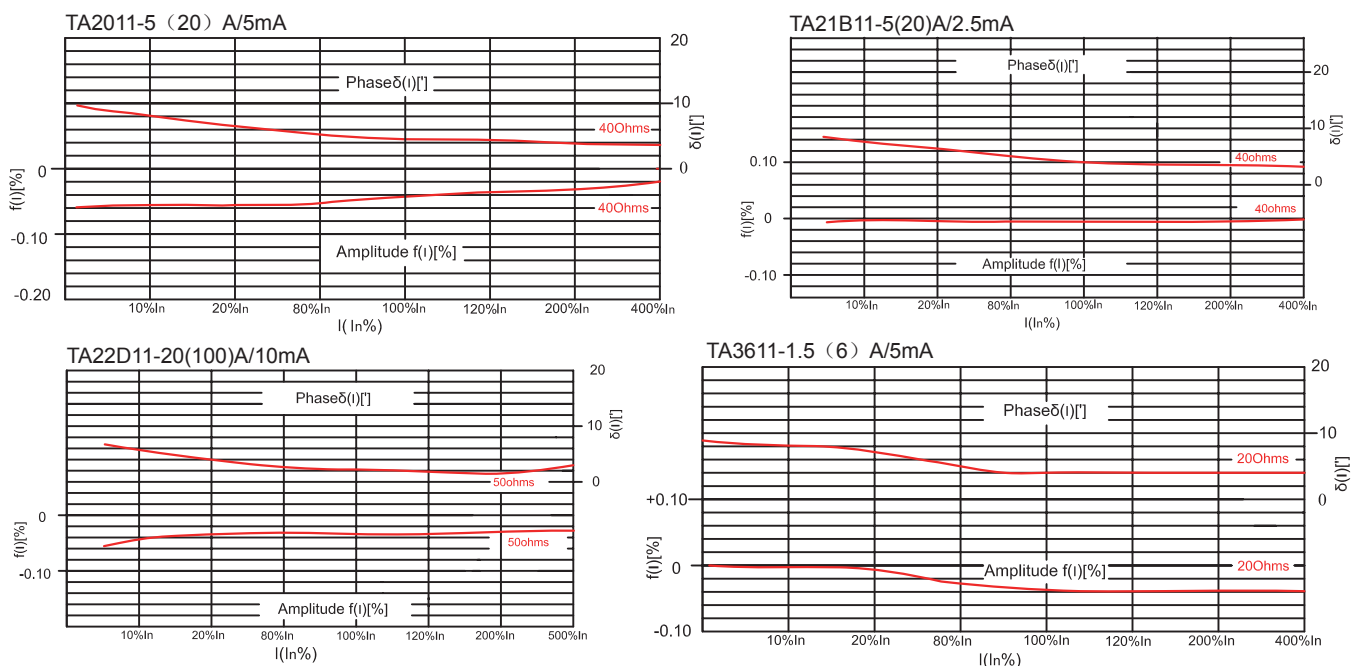
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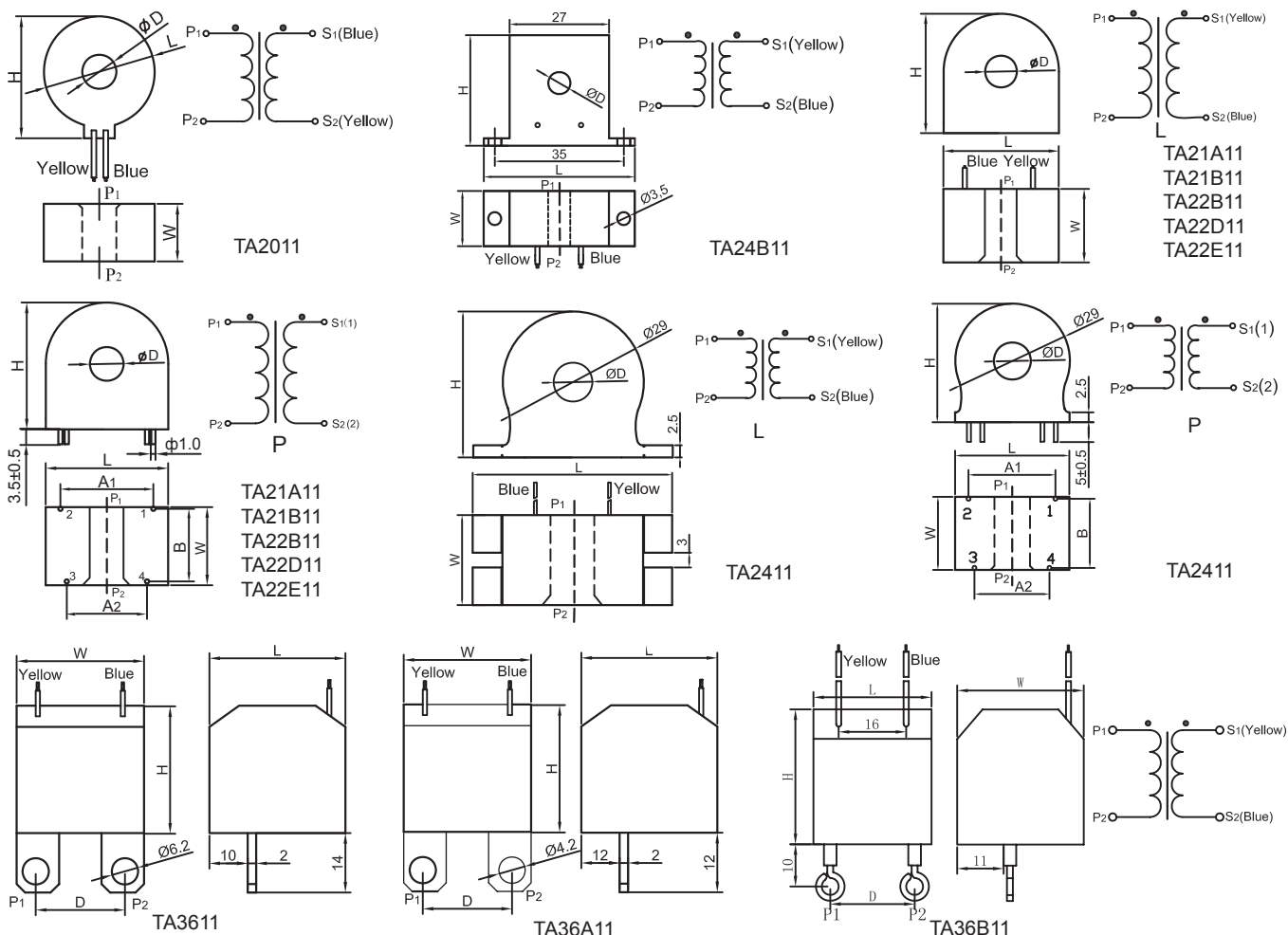
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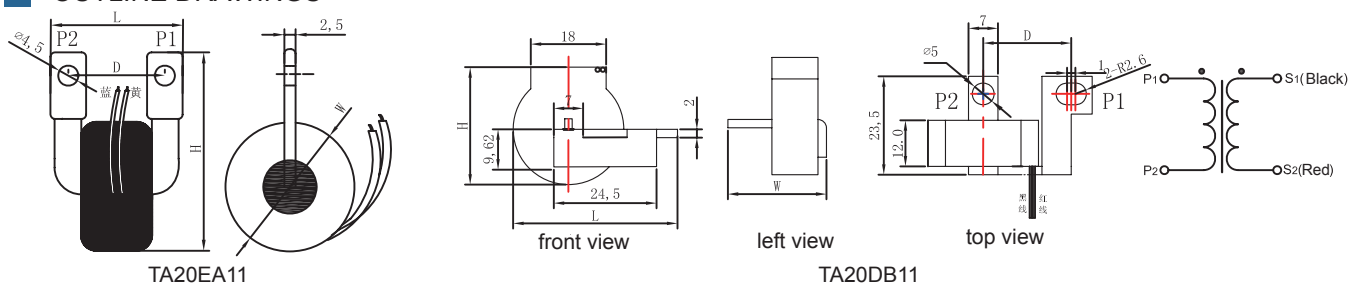
Typical Impedance Dependence of Phase and Amplitude Errors (Test temperature 25° C)



OUTLINE DRAWINGS



OUTLINE DRAWINGS



OUTLINE DIMENSIONS

Unit:mm (inch)

Model	L	W	H	A1	A2	B	D
TA2011	26.0(1.024)	13.5(0.531)	29.0(1.142)	----	----	----	8.0(0.315)
TA21A11	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)
TA21B11	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)
TA22B11	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)
TA22D11	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)
TA22E11	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)
TA2411(L)	41.0(1.614)	18.5(0.728)	30.0(1.181)	----	----	----	9.0(0.354)
TA2411(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)
TA24B11	41.0(1.614)	15.0(0.591)	30.0(1.181)	----	----	----	6.0(0.236)
TA3611	32.0(1.260)	30.0(1.181)	34.0(1.339)	----	----	----	20.0(0.787)
TA36A11	32.0(1.260)	30.0(1.181)	34.0(1.339)	----	----	----	20.0(0.787)
TA36B11	28.0(1.102)	30.0(1.181)	32.0(1.260)	----	----	----	20.0(0.787)
TA20DB11	38.0(1.496)	12.0(0.472)	29.0(1.142)	----	----	----	20.0(0.787)
TA20EA11	30.0(1.181)	30.0(1.181)	45.0(1.772)	----	----	----	21.0(0.827)