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 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（1.2/50μs standard shock wave）optional
- Operating Temperature:-25 to +55ºC,-40 to +85ºCoptional
- 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

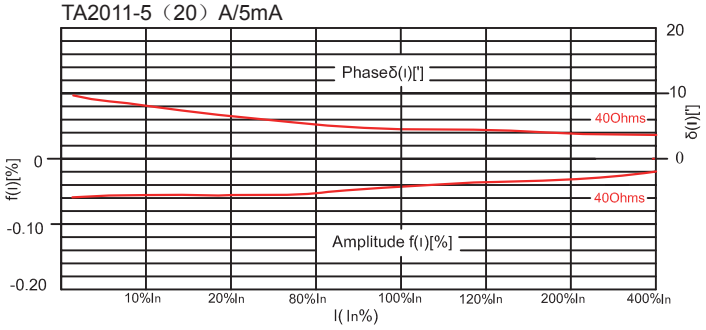
Part Number	Rated(max) input current(A)	turn ratio	Frequency（HZ）	Secondary Burden (Ohms)	Accuracy Class	Outline Dimensions ID-L-W-H(mm)	Output Mold
TA2011	5(20),5(50) 10(40),15(60)	1000:1 1500:1 2000:1	50 - 400	≤20	0.1 0.2	8.0-26.0-13.5-28.6	Lead
TA21A11	5(20),5(50) 10(40),15(60)	1000:1 2000:1 2500:1	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.

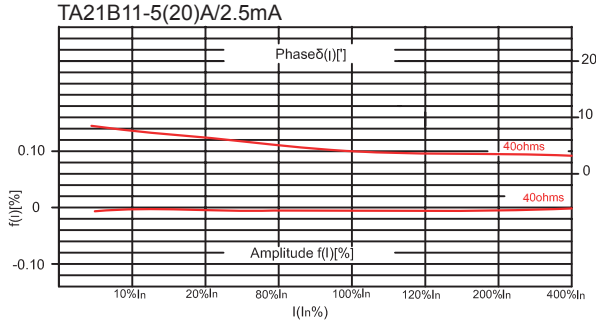
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Typical Impedance Dependence of Phase and Amplitude Errors (Test temperature 25° C)

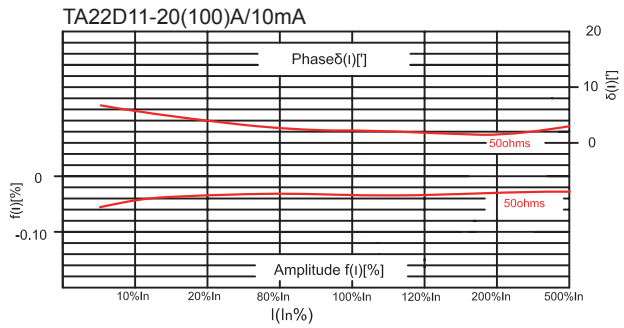
TA2011-5（20）A/5mA



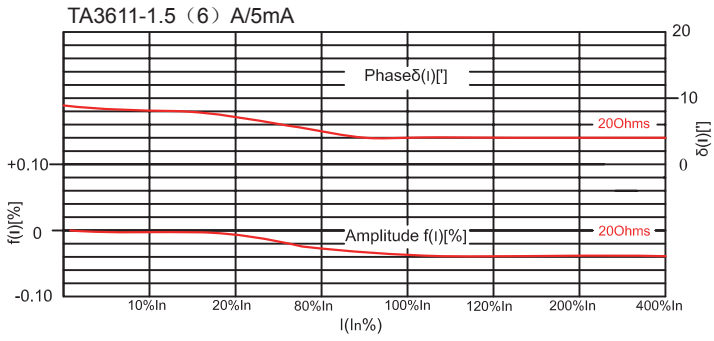
TA21B11-5(20)A/2.5mA



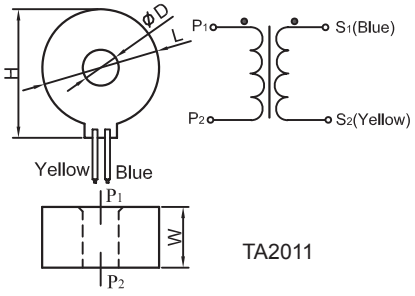
TA22D11-20(100)A/10mA



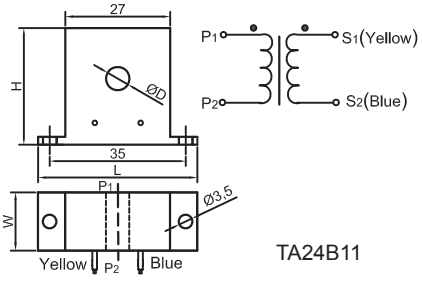
TA3611-1.5（6）A/5mA



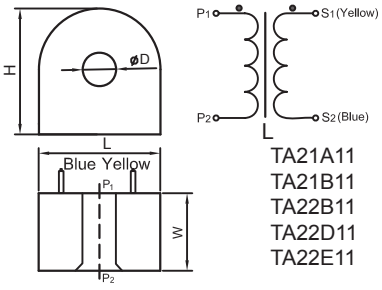
OUTLINE DRAWINGS



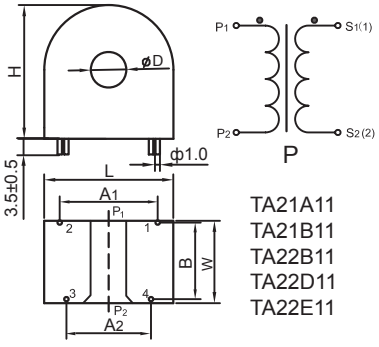
TA2011



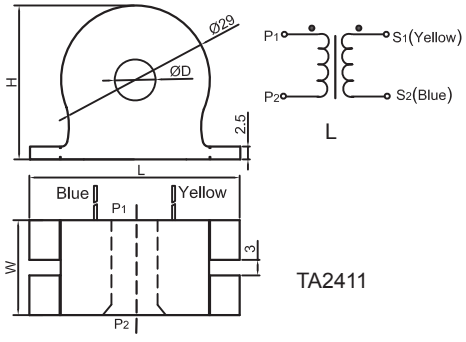
TA24B11



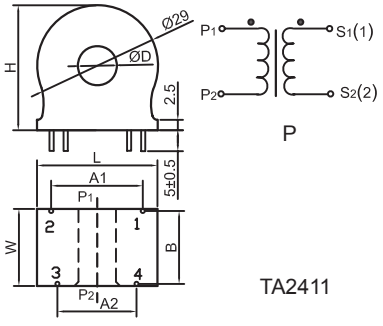
TA21A11
TA21B11
TA22B11
TA22D11
TA22E11



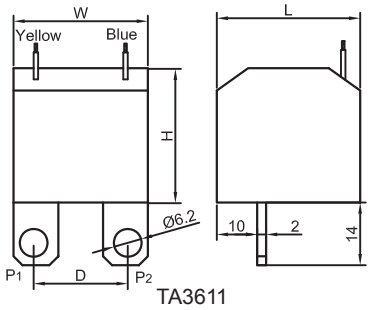
TA21A11
TA21B11
TA22B11
TA22D11
TA22E11



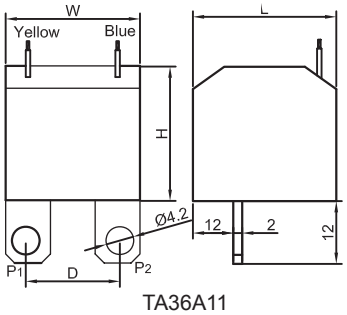
TA2411



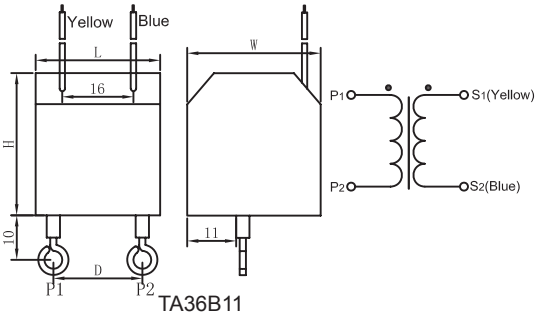
TA2411



TA3611



TA36A11



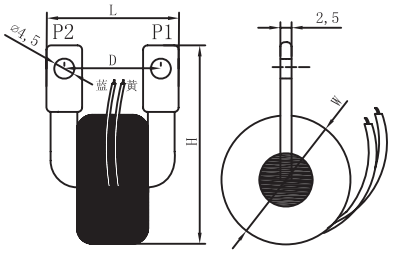
TA36B11

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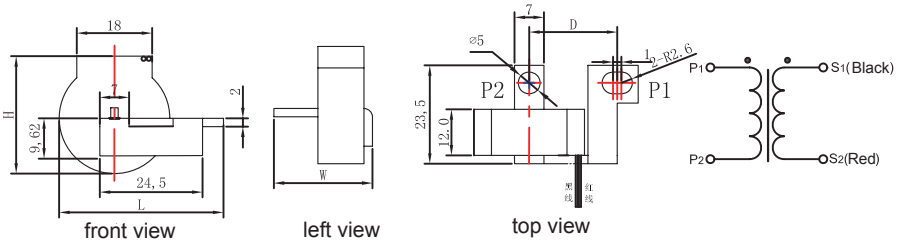
元星电子
YUANXI NG

Single Phase Current Transformers for AC Electronic Watthour meters

OUTLINE DRAWINGS



TA20EA11



TA20DB11

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)

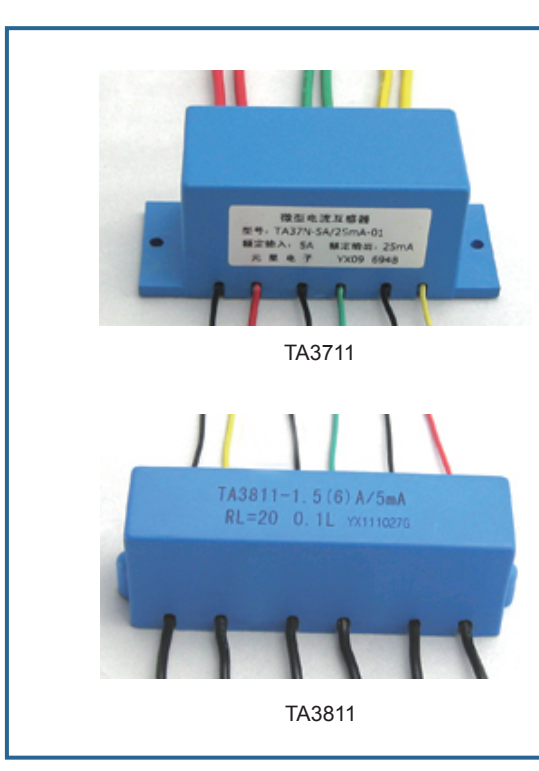
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Current Transformers for AC Electronic Watthour Meters

Three Phase for AC Electronic Watthour meters

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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 3 standard sizes
- High accuracy，wide linear range，good consistency
- Flexible installation, bolt fixed, lead way
- Toroidal Nanocrystalline and Nickel Alloy cores available

APPLICATIONS

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

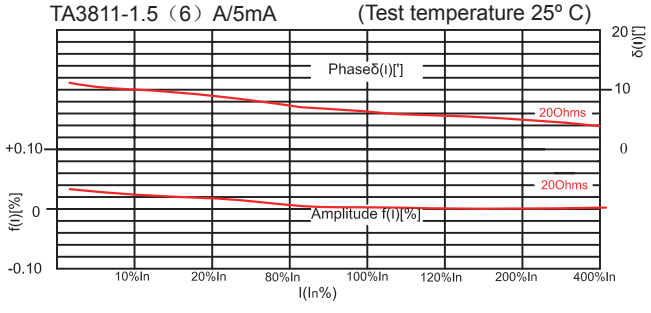
SPECIFICATIONS

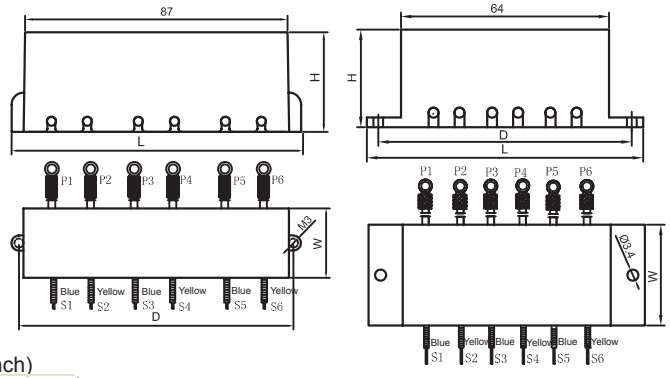
- Exterior Material: PBT Resin UL flame retardant rating 94-V0
- Interior Insulation:Epoxy Encapsulated
- Isolation Current:2500 Vrms for 1 minute
- Dielectric Resistance:1000 M Ohms @ 500 Vdc
- Surge Withstand: 5000V（1.2/50μs standard shock wave）optional
- Operating Temperature:-25 to +55ºC,-40 to +85ºCoptional
- 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

Model	Rated（max） Input/Output current	turn ratio	Frequency (Hz)	Secondary Burden(Ohms)	Accuracy Class	Outline Dimensions ID-L-W-H(mm)	Output way
TA3711	Input:1.5(6)A Output：5mA,6mA,10mA	150:1 250:1 300:1	50 - 400	≤40	0.1, 0.2	L-W-H 85.0-31.0-33.0	Lead
TA3811	Input:1.5(6)A Output：5mA,6mA,10mA	150:1 250:1 300:1	50 - 400	≤40	0.1, 0.2	L-W-H 98.0-23.0-33.0	
TA38C11	Input:1.5(6)A Output：5mA,6mA,10mA	150:1 250:1 300:1	50 - 400	≤40	0.1, 0.2	L-W-H 96.0-23.0-28.0	

Typical Impedance Dependence of Phase and Amplitude Errors&Outline Dimensions

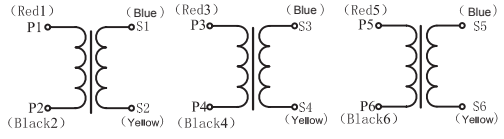




Unit:mm (inch)

型号	L	W	H	D
TA3711	85.0(3.346)	31.0(1.220)	33.0(1.299)	78.0(3.071)
TA3811	98.0(3.858)	23.0(0.906)	33.0(1.299)	90.0(3.643)
TA38C11	96.0(3.780)	23.0(0.906)	33.0(1.299)	90.0(3.643)

TA3811/TA38C11



TA3711

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