Current Transformers for Protection Relay

Current Transformers For Steady Protection Relay

The YUANXING TA series Miniature current transformers are designed for applications where AC current signals must be transformed accurately into a lower AC current or voltage signal appropriate for micro-processor based circuits.

TAXX2X series current transformer is specially designed for steady protection relay, used to accurately convert steady-state shortcircuit current signal, which is 20, 30, 40, 50, 60 times of rated current, to signal in weak electric circuit. encapsulated with epoxy resin, this series can be used for poor working environment.



FEATURES

- Low cost • More than 10 standard sizes
- PCB Mounted
- Non-symmetrical mounting pattern
- Toroidal Silicon steel, Nikel Alloy cores available
- Electromagnetic induction type, no need to provide external power supply
- The shortcircuit current signal waveform is converted accurately

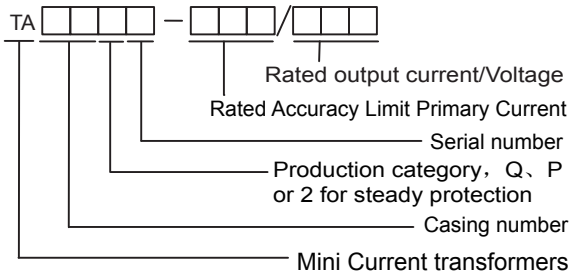
APPLICATIONS

- Used for steady short circuit current signal relay protection device

SPECIFICATIONS

- Exterior Material: PBT Resin UL flame retardant rating 94-V0
- Interior Insulation: Epoxy Encapsulated
- Isolation Voltage: 2500 Vrms for 1 minute
- Dielectric Resistance: 1000M Ohms @500 Vdc
- Surge Withstand: 5000V（1.2/50μs standard shock wave）
- Accuracy Class: as defined in IEC 60044-1 Part 1 Current Transformers for protection of the error limit definition
- Operating Temperature: -25 to +55ºC,-40 to +85ºC Optional
- Frequency: 50 to 400 Hz
- RoHS compliant

PART NUMBERS

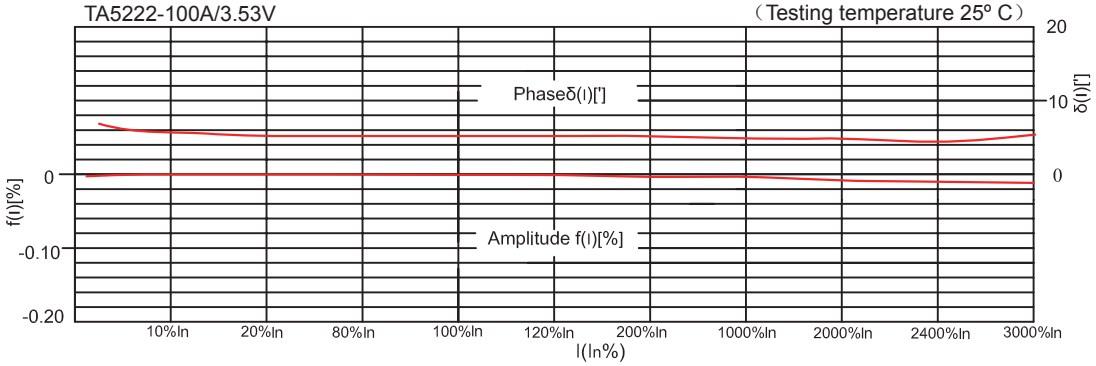


PERFORMANCES

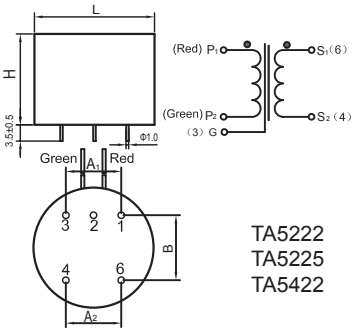
Model	Rated Input Current（A）	Rated Accuracy Limit Primary Current/secondary Output	Limits of Error	Dimensions Outline（mm）
TA2321	1 5	20A/10mA 80A/40mA	0.2, 0.5 Class for 5-200% Rated Primary Current, 1.0 Class for 2-20 Times Rated Primary Current, Composite Error ≤5%.	ID-L-W-H 5.0-18.0-17.8-19.5
TA23D21	1 5	20A/10mA 100A/50mA		ID-L-W-H 5.4-23.0-18.0-23.5
TA23B21	1 5	20A/0.1V,0.333V...3.53V...7.07V 100A/0.1V,0.333V...3.53V...7.07V		ID-L-W-H 6.0-25.0-21.5-26.0
TA23A21	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		ID-L-W-H 6.0-34.0-22.0-36.0
TA5222	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		OD-H 32.0-26.0
TA5225	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		OD-H 32.0-26.0
TA3521	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		L-W-H 32.0-25.0-35.0
TA39A21	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		L-W-H 35.0-32.0-32.0
TA39B21	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		L-W-H 35.0-32.0-30.0
TA5422	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		OD-H 37.4-28.0
TA3921	1 5	20,30A/0.1V,0.333V...3.53V...7.07V 100,150A/0.1V,0.333V...3.53V...7.07V		L-W-H 36.5-31.0-35.0

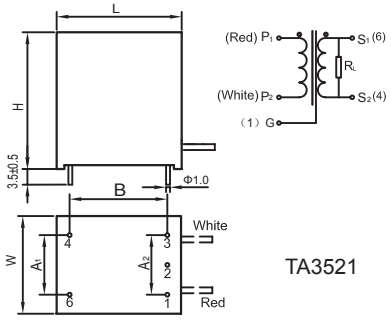
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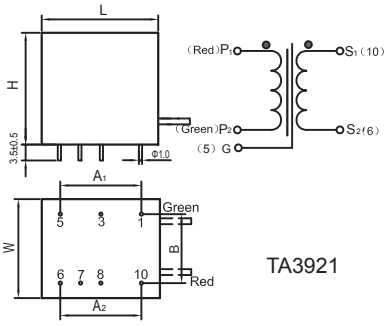
Impedance dependence of Phase and Amplitude Errors

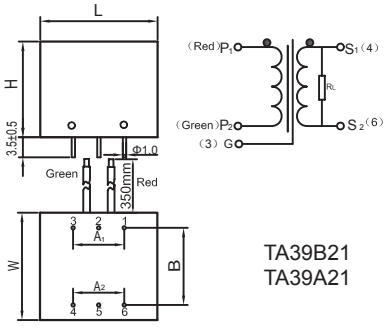


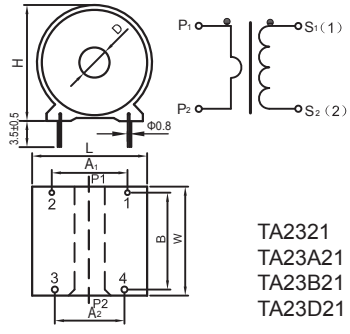
OUTLINE DRAWINGS











OUTLINE DIMENSIONS

Unit:mm (inch)

Model	L	W	H	A1	A2	B	D
TA2321	18.0(0.709)	17.8(0.701)	19.5(0.768)	13.0(0.512)	11.2(0.441)	16.5(0.650)	5.0(0.197)
TA23D21	23.0(0.906)	18.0(0.709)	23.5(0.925)	13.0(0.512)	11.2(0.441)	16.5(0.650)	5.4(0.213)
TA23B21	25.0(0.984)	21.5(0.846)	26.0(1.024)	20.32(0.800)	10.16(0.396)	20.0(0.787)	6.0(0.236)
TA23A21	34.0(1.339)	22.0(0.866)	36.0(1.417)	20.32(0.800)	10.16(0.396)	20.0(0.787)	6.0(0.236)
TA5222	32.0(1.260)	--	26.0(1.024)	7.62x2(0.3x2)	15.24(0.60)	20.0(0.787)	--
TA5225	32.0(1.260)	--	26.0(1.024)	7.5x2(0.295x2)	15.0(0.591)	22.5(0.886)	--
TA3521	32.0(1.260)	25.0(0.984)	35.0(1.378)	15.24(0.600)	7.62x2(0.3x2)	25.4(1.00)	--
TA39A21	35.0(1.378)	32.0(1.260)	32.0(1.260)	7.5x2(0.295x2)	7.5x2(0.295x2)	22.5(0.886)	--
TA39B21	35.0(1.378)	32.0(1.260)	30.0(1.181)	7.5x2(0.295x2)	7.5x2(0.295x2)	22.5(0.886)	--
TA5422	37.4(1.472)	--	28.0(1.102)	7.62x2(0.3x2)	15.24(0.600)	20(0.787)	--
TA3921	36.5(1.437)	31.0(1.220)	35.0(1.378)	20.32(0.800)	20.32(0.800)	25.4(1.000)	--

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