Current Transformers for Protection Relay

Current Transformers For Transient 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.

TAXX3X，TAXX5X series current transformer is specially for power system protection device designed of transient protection relay, used to accurately convert transient-state shortcircuit current signal to signal in weak electric circuit. encapsulated with epoxy resin, this series can be used for poor working environment.

A new TA model can be designed and manufactured to meet the specific design challenges of the client's specific application.

FEATURES

- Low cost
- More than 10 standard sizes
- Non-symmetrical PCB mounting pattern
- Electromagnetic,need no power supply
- The shortcircuit current signal waveform is converted accurately，good transient charateristic.

APPLICATIONS

- Used for a transient electric spread change requirements of the power system 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
- Rated load：100K Ohms
- Surge Withstand: 5000V（1.2/50μs standard shock wave）
- Error limits: as defined in IEC 60044-1，IEC 60044-6 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

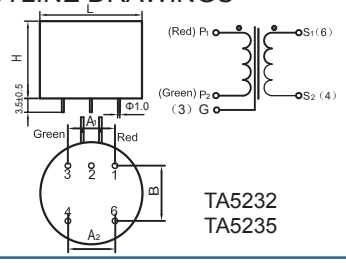
TA □□□□ – □□□/□□□

- Output Current/Voltage Rated Primary Short-Circuit Current
- Serial number
- Product sort，3 or 5 mean transiant protection
- Casing number
- Mini Current transformers

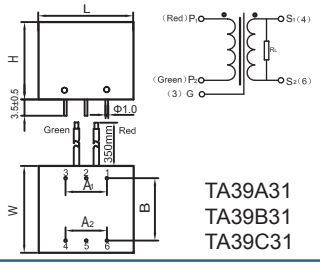
PERFORMANCES

Model	Rated input current(A)	Rated primary shortcircuit current /Secondary output	Steady characteristics	Transient characterist	Dimensions Outline（mm）
TA5232	1 5	20,30A/0.1V,0.333V...3.53V 100,150A/0.1V,0.333V...3.53V	0.2, 0.5 Class for 5-200% Rated Primary Current, 1.0 Class for 2-40 Times Rated Primary Current.	Tp=100ms,Excursion Factor cose=0.5, error of fundamental Wave RMS≤5% .	OD-H 32.0-26.0
TA5235	1 5	20,30A/0.1V,0.333V...3.53V 100,150A/0.1V,0.333V...3.53V			OD-H 32.0-26.0
TA3531	1 5	20,30A/0.1V,0.333V...3.53V 100,150A/0.1V,0.333V...3.53V			L-W-H 32.0-25.0-35.0
TA39B31	1 5	20,30A/0.1V,0.333V...3.53V 100,150A/0.1V,0.333V...3.53V			L-W-H 35.0-32.0-30.0
TA3931	1 5	20,30A/0.1V,0.333V...3.53V 100,150A/0.1V,0.333V...3.53V			L-W-H 36.5-31.0-35
TA23A31	1 5	40A/0.1V,0.333V...3.53V 200A/0.1V,0.333V...3.53V	0.2, 0.5 Class for 5-200% Rated Primary Current,1.0 Class for 2-40 Times Rated Primary Current.	Tp=100ms,Excursion Factor cose=1.0, error of fundamental Wave RMS≤5% .	ID-L-W-H 6.0-34-22-36
TA39A31	1 5	40A/0.1V,0.333V...3.53V 200A/0.1V,0.333V...3.53V			L-W-H 35.0-32.0-32
TA39C31	1 5	40A/0.1V,0.333V...3.53V 200A/0.1V,0.333V...3.53V			L-W-H 37.0-37.0-31

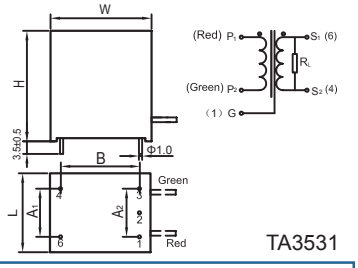
OUTLINE DRAWINGS



TA5232
TA5235



TA39A31
TA39B31
TA39C31



TA3531

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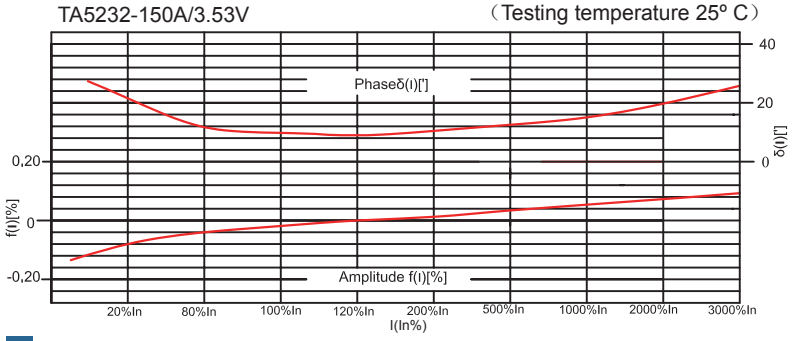
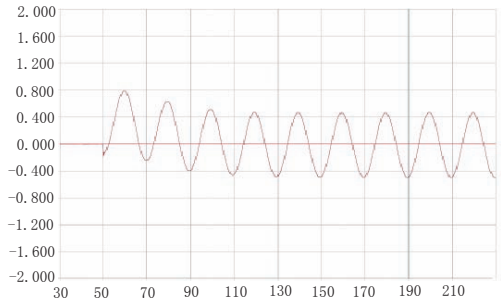
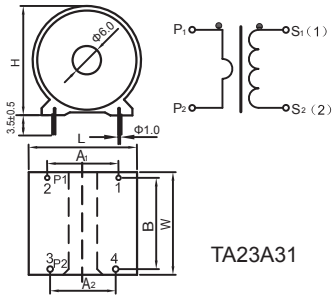
Impedance dependence of Phase and Amplitude Errors and Transient Wave

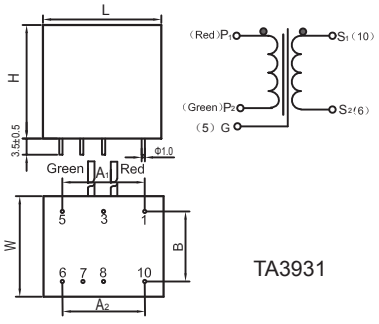




OUTLINE DRAWINGS



TA23A31



TA3931

OUTLINE DIMENSIONS

Unit:mm (inch)

Model	L	W	H	A1	A2	B
TA5232	32.0(1.260)	—	26.0(1.024)	7.62X2(0.3x2)	15.24(0.60)	20.0(0.787)
TA5235	32.0(1.260)	—	26.0(1.024)	7.50(0.295x2)	15.0(0.591)	22.5(0.886)
TA3531	32.0(1.260)	25.0(0.984)	35.0(1.378)	15.24(0.60)	7.62X2(0.3x2)	25.4(1.0)
TA39B31	35.0(1.378)	32.0(1.260)	30(1.181)	7.5X2(0.295x2)	7.5X2(0.295x2)	22.5(0.886)
TA3931	36.5(1.437)	31.0(1.220)	35.0(1.378)	20.32(0.80)	20.32(0.80)	25.4(1.0)
TA23A31	34.0(1.339)	22.0(0.866)	36.0(1.417)	20.32(0.80)	10.16(0.396)	20.0(0.787)
TA39A31	35.0(1.378)	32.0(1.260)	32.0(1.260)	7.5X2(0.295x2)	7.5X2(0.295x2)	22.5(0.886)
TA39C31	37.0(1.457)	37.0(1.457)	31.0(1.220)	11.43X2(0.45x2)	22.86(0.9)	25.0(0.984)

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