

# 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 characteristic.

### APPLICATIONS

- Used for a transient electric spread change requirements of the power system protection device

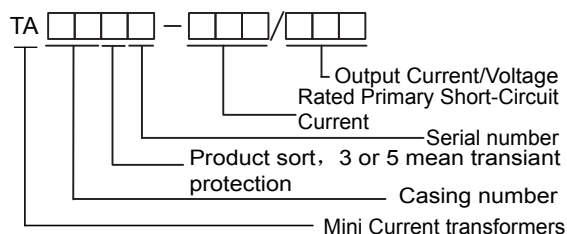
### SPECIFICATIONS

- 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 +55°C, -40 to +85°C Optional
- Frequency: 50 to 400 Hz • RoHS compliant

### PERFORMANCES



### PART NUMBERS



Model	Rated input current(A)	Rated primary shortcircuit current /Secondary output	Steady characteristics	Transient characterist	Dimensions (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
TA3531	1 5	20,30A/0.1V,0.333V...3.53V 100,150A/0.1V,0.333V...3.53V			L-W-H 32-25.0-34.0
TA39B31	1 5	20,30A/0.1V,0.333V...3.53V 100,150A/0.1V,0.333V...3.53V			L-W-H 35-32.0-28.5
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
TA32C53	1 5	20,30,40A/0.1V,0.333V...3.53V...7.07V 100,150,200A/0.1V,0.333V...3.53V...7.07V			L-W-H 32.5-33-36.5
TA33B52	1 5	20,30,40A/0.1V,0.333V...3.53V...7.07V 100,150,200A/0.1V,0.333V...3.53V...7.07V	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%,	L-W-H 38-33-32.5
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
TA33H52	1 5	20,30,40A/0.1V,0.333V...3.53V...7.07V 100,150,200A/0.1V,0.333V...3.53V...7.07V			L-W-H 37.2-34.2-35
TA33E53	1 5	20,30,40A/0.1V,0.333V...3.53V...7.07V 100,150,200A/0.1V,0.333V...3.53V...7.07V			L-W-H 37.4-37-33
TA39E31	1 5	40A/0.1V,0.333V...3.53V 200A/0.1V,0.333V...3.53V			L-W-H 38.0-34.5-40
TA39F31	1 5	40A/0.1V,0.333V...3.53V 200A/0.1V,0.333V...3.53V			L-W-H 40.0-40.0-35
TA39H31	1 5	40A/0.1V,0.333V...3.53V 200A/0.1V,0.333V...3.53V			L-W-H 45.0-45.0-40

SHANDONG YUANXING Electronics Co.,Ltd.

Phone: +86-533-381-8450  
Fax: +86-533-381-8724

NO.39, QIXIN AVENUE, ZHANGDIAN,  
ZIBO, SHANDONG, CHINA 255095

[www.yuanxing.net](http://www.yuanxing.net)  
[sales@yuanxing.net](mailto:sales@yuanxing.net)