

Current Transformers for Motor Protection

YUANXING TA series miniature current transformers are designed for motor protection. It is mainly used in 380V, 660V AC motor protection, which can change AC current signal from high-tension to low-tension for electrical circuit based on microprocessor.

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
- More than 10 standard sizes
- Chassis mounting pattern
- Electromagnetic, need no power supply

APPLICATIONS

- Application for current monitor of AC motor, illumination device, air compressor and HVAC temperature control, electrical energy manage, building control system. Current measurement, monitoring and protection for circuitry and equipment

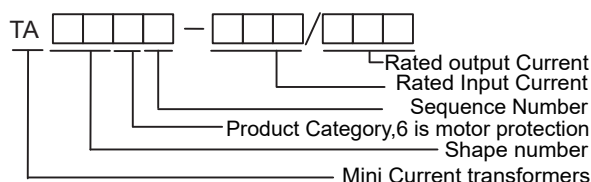
SPECIFICATIONS

- Exterior Material: ABS or PBT Resin UL flame retardant rating 94-V0
- Interior Insulation: Epoxy Encapsulated
- Isolation Voltage: 2500 Vrms for 1
- Dielectric Resistance: 1000M Ohms @500 Vdc
- Surge Withstand: 5000V (1.2/50μs standard shock wave)
- Rated Load Resistance: 100K Ohms
- Accuracy Class: as defined in IEC 60044-1 class 0.5, 1.0
- Operating Temperature: -25 to +55°C, -40 to +85°C Optional
- Frequency: 50 to 400 Hz
- RoHS compliant
- CE-approved

PERFORMANCES



PART NUMBERS



Model	Specifications (Rated input/Output)	Turn ratio	Accuracy class	Max over loading current		Outline Dimension ID-L-WH(mm)	Mounting means
				Overload multiples	Duration(s)		
TA7161	1A/0 1V...0.353V	1:2000 1:3000	0.2	10	2	10.0 100.0-28.0-39.0	bolting
	2A/0 1V...0.353V						
	5A/0 1V...0.353V						
	6.3A/0.1V...0.353V						
	10A/0 1V...0.353V						
	25A/0.1V...0.353V						
	50A/0.1V...0.353V		0.5				
TA71B61	1A/01V...0.353V	1:2000 1:3000	0.2	10	2	10.0 71.5-53.0-62.0	35mm standard guideway or bolting
	2A/01V...0.353V						
	5A/0 1V...0.353V						
	6.3A/0.1V...0.353V						
	10A/0 1V...0.353V						
	25A/0.1V...0.353V						
	50A/0.1V...0.353V		0.5				

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Model	Specifications (Rated input/Output)	Turn ratio	Accuracy class	Max over loading current		Outline Dimension ID-L-W- H(mm)	Mounting means
				Overload multiples	Duration(s)		
TA7261	1A/01V...0.353V	1:2000 1:3000	0.2	10	2	20.0 115.0-42.0- 45.0	bolting
	10A/0 1V...0.353V						
	25A/0.1V...0.353V						
	50A/0.1V...0.353V		0.5				
	100A/ 0.1V...0.353V			8			
TA7361	1A/01V...0.353V	1:2000 1:3000	0.5	10	2	20.0 120.0-50.0- 57.0	bolting
	10A/0 1V...0.353V						
	25A/ 0.1V...0.353V						
	50A/0.1V...0.353V						
	100A/ 0.1V...0.353V						
	150A/ 0.1V...0.353V			8			
TA7561	2A/0 1V...0.353V	1:2000 1:3000 1:4000	0.2	10	2	15.0 69.5-43.0- 104.0	35mm standard guideway or bolting
	5A/0 1V...0.353V						
	6.3A/ 0 1V...0.353V						
	10A/0 1V...0.353V		0.5				
	25A/0.1V...0.353V						
	50A/0.1V...0.353V		0.2				
	100A/ 0.1V...0.353V						
	150A/0.1V...0.353V						
TA75B61	25A/0 1V...0.353V	1:2000 1:3000 1:4000	0.5	10	2	20.0 59.0-52.0- 126.0	35mm standard guideway or bolting
	50A/0.1V...0.353V		0.2				
	100A/0.1V...0.353V						
	150A/0.1V...0.353V						
	200A/0.1V...0.353V						
TA7661	2A/0.1V...0.353V	1:2000 1:3000 1:4000	0.2	10	2	20.0 94.0-53.0-92	35mm standard guideway or bolting
	6.3A/0.1V...0.353V						
	10A/0.1V...0.353V						
	25A/0.1V...0.353V		0.5				
	50A/0.1V...0.353V						
	100A/0.1V...0.353V		0.2				
	150A/0.1V...0.353V						
	200A/0.1V...0.353V						

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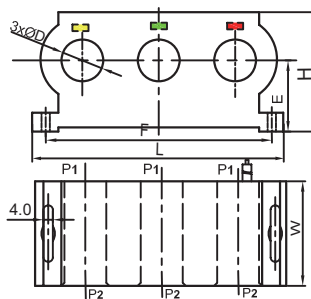
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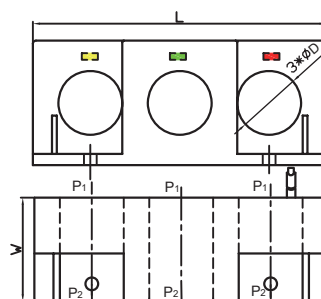
Model	Specifications (Rated input/Output)	Turn ratio	Accuracy class	Max over loading current		Outline Dimension ID-L-W- H(mm)	Mounting means
				Overload multiples	Duration(s)		
TA7861	100A/0.1V...0.353V	1:2000 1:3000 1:4000	0.2	10	2	40.0 212-47-89.3	bolting
	200A/0.1V...0.353V						
	250A/0.1V...0.353V						
	300A/0.1V...0.353V						
	400A/0.1V...0.353						
TA7961	100A/0.1V...0.353V	1:2000 1:3000 1:4000	0.2	10	2	40.0 184-63.0-78.0	bolting
	200A/0.1V...0.353V						
	250A0.1V...0.353V						
	300A/0.1V...0.353V						
	400A/0.1V...0.353V						
TA79A61	25A/0.1V...0.353V	1:2000 1:3000 1:4000	0.5	10	2	25.0 143-58-65	bolting
	50A/0.1V...0.353V		0.2				
	100A/0.1V...0.353V						
	200A/0.1V...0.353V						
	250A/0.1V...0.353V						
TA79B61	100A/0.1V...0.353V	1:2000 1:3000 1:4000	0.2	10	2	30.0 196-38.0-74.0	bolting
	200A/0.1V...0.353V						
	250A/0.1V...0.353V						
	300A/0.1V...0.353V						
	400A/0.1V...0.353V			0.8			

Single turn
primaryWound
primaryWithout DC
ImmunityWith DC
ImmunitySteady
ProtectionTransient
ProtectionPassive for
Fault RecordingActive for
Fault RecordingMotor
Protection

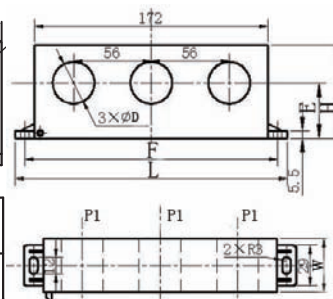
OUTLINE DRAWINGS



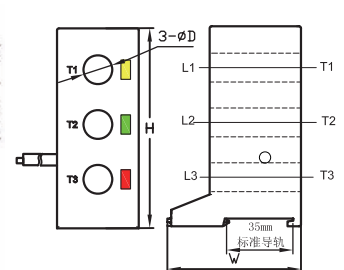
TA7161 TA7262 TA7361



TA7961



TA79B61



TA7561 TA75B61

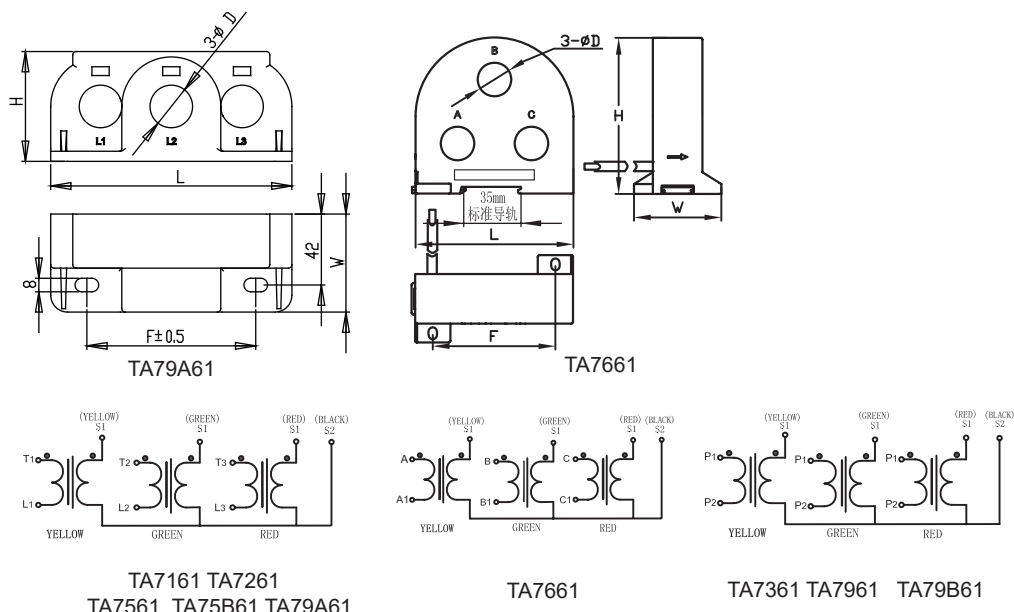
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OUTLINE DRAWINGS



OUTLINE DIMENSION

Unit: mm (inch)

Model	L	W	H	D	E	F
TA7161	100.0(3.937)	28.0(1.102)	39.0(1.535)	10.0(0.394)	22.0(0.866)	91.0(3.583)
TA7261	115.0(4.528)	42.0(1.654)	45.0(1.772)	20.0(0.787)	24.0(0.945)	108.0(4.252)
TA7361	120.0(4.724)	50.0(1.968)	57.0(2.244)	20.0(0.787)	34.0(1.339)	108(4.252)
TA7561	42.5(1.673)	69.5(2.736)	104(4.094)	15.0(0.591)	----	----
TA75B61	52.0(2.047)	58.5(2.303)	127.0(5.0)	20.0(0.787)	----	----
TA7661	94.0(3.701)	52.0(2.047)	93.0(3.661)	20.0(0.787)	----	73.0(2.874)
TA7961	184.0(7.244)	65.0(2.559)	78.0(3.071)	40.0(1.575)	----	112.0(4.409)
TA79A61	143.0(5.630)	58.0(2.283)	65.0(2.559)	25.0(0.984)	----	100.0(3.937)
TA79B61	196.0(7.717)	38.0(1.496)	74.0(2.913)	30.0(1.181)	40.0(1.575)	182.0(7.165)

Single turn
primary
Measurement

Without DC
Immunity
With DC
Immunity
Electronic Wattour Meter

Steady
Protection
Transient
Protection
Passive for
Fault Recording
Active for
Fault Recording

Motor
Protection