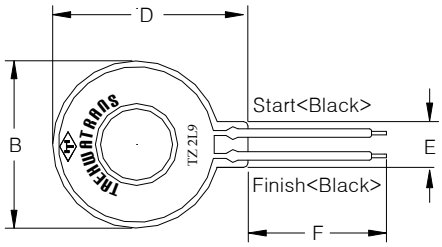
TAEHWATRANS CURRENT TRANSFORMER SPECIFICATION	MODEL NO	CONNECTION	CUSTOMER
	TZ2L9	WIRE LEAD TYPE	STANDARD TYPE

1. DRAWING



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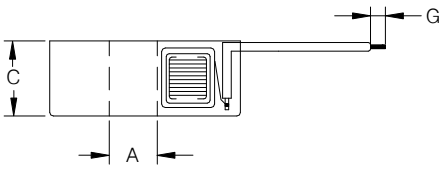

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2. DIMENSION

(Unit : mm/inch)

A (MIN)	B (MAX)	C (MAX)	D (MAX)	E (MAX)	F (±5)	G (±0.5)
8.9 0.350″	22.0 0.866″	8.2 0.323″	25.0 0.984″	7.0 0.276″	120.0 4.724″	4.0 0.157″

3. ELECTRICAL PROPERTIES

Turn Ratio	1 : 1,000	DC Resistance	30 ~ 38Ω
High Potential Voltage	a.c 2KV / Min	Frequency	50/60Hz
Safety Certificate	UL	International Standard	
General Application	RCB, ELCB, LCDI, ALCI etc		

4. TEST CONDITIONS & PROPERTIES

Test Conditions				Electrical Properties		
Primary Current Io (mA)	Secondary Burden Resistance(Ω)	Frequency (Hz)	DC Current (AT)	Output Voltage Vo (mV)	Remanence Magnetism Vo" (mV)	Thermal Variation Vo" (mV) at -20℃ + 65℃
25mA	1KΩ	50/60Hz	50AT	17 ~ 21mV	Max 8%	Max 10%

Hair-Pin Test at 180A / 1KΩ (Secondary noise at the balance current)	RMS ≤ 3mV

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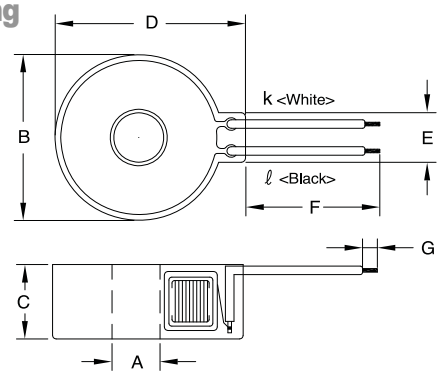
Zero Phase Current Transformer

Application

- Residual current circuit breaker
- Earth leakage circuit breaker
- Application leakage circuit interrupter
- Ground fault interrupter

Drawing



Features

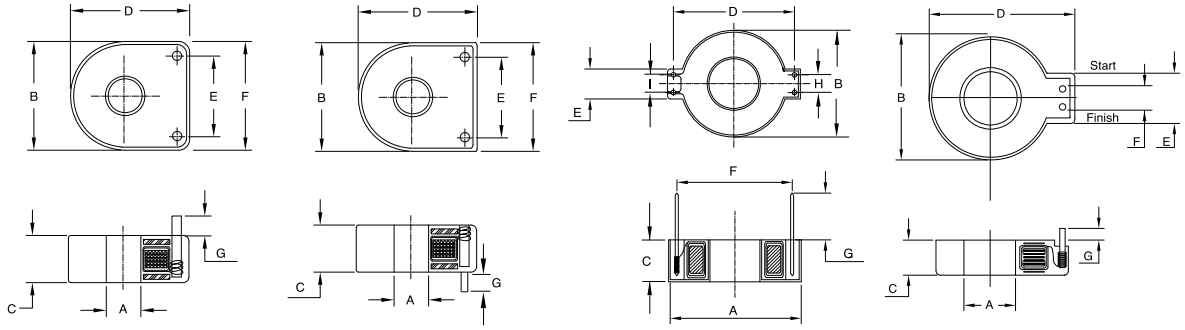
- Minimum output voltage tolerance
- Close to zero load shift & excellent thermal properties
- A variety of configuration
- RoHS compliant

Dimension & Current Rating

Wire lead type (unit : mm/inch)

Model No	A(min)	B(max)	C(max)	D(max)	E(±0.3)	F(±0.3)	G(±0.5)	Current rating
TZ1L	5.9 0.232″	17.4 0.685″	8.0 0.315″	20.5 0.807″	5.5 0.217″	73.0 2.874″	3.0 0.118″	15A 30A
TZP9L	6.0 0.236″	14.0 0.551″	9.0 0.354″	17.5 0.689″	5.7 0.224″	40.0 1.575″	3.0 0.118″	20A 30A
TZ53L10	6.9 0.272″	17.1 0.673″	6.7 0.264″	19.1 0.752″	5.2 0.205″	50.0 1.969″	3.0 0.118″	15A 30A
TZ1PL	7.3 0.287″	19.1 0.752″	8.1 0.319″	22.0 0.866″	7.0 0.276″	73.0 2.874″	3.0 0.118″	15A 30A
TZ2L9	8.9 0.350″	22.0 0.866″	8.2 0.323″	25.0 0.984″	7.0 0.276″	120± 5.0 4.724″	4.0± 0.5 0.157″	30A 50A
TZ3L	9.9 0.390″	24.0 0.945″	9.0 0.354″	27.0 1.063″	6.0 0.236″	73.0 2.874″	3.0 0.118″	50A 75A
TZ3PL	12.5 0.492″	26.2 1.031″	9.0 0.354″	29.0 1.142″	6.45 0.254″	120± 5.0 4.724″	4± 0.5 0.157″	50A
TZ4L	15.6 0.614″	30.3 1.193″	9.0 0.354″	33.2 1.307″	6.3 0.248″	73.0 2.874″	3.0 0.118″	100A
TZ5L	19.4 0.764″	40.5 1.594″	10.0 0.394″	43.5 1.713″	12.1 0.476″	87.0 3.425″	6.0 0.236″	100A 150A
TZ9L1	26.0 1.024″	49.5 1.949″	15.1 0.594″	52.5 2.067″	8.8 0.346″	106.0 4.173″	6.0 0.236″	225A

Drawing



TZ1H　　TZ1H3　　TZ2H1　　TZ53H

Dimension & Current Rating

Horizontal Type　　(unit : mm/inch)

Model No	A(min)	B(max)	C(max)	D(max)	E	F(max)	G	H	Current Rating
TZ1H	5.7 0.224″	17.4 0.685″	8.0 0.315″	17.3 0.681″	11.2 0.441″	17.4 0.685″	6± 1.0 0.236″		15A 20A 30A
TZ1H3	6.1 0.240″	17.1 0.673″	7.0 0.276″	18.2 0.717″	10.3 0.406″	17.1 0.673″	2.75 0.108″		
TZ2H1	10.5 0.413″	23.5 0.925″	10.0 0.394″	29.7 1.169″	7.1 0.280″	26.0 1.024″	12.5 0.492″	4.3 0.169″	
TZ53H	6.9 0.272″	17.1 0.673″	6.0 0.236″	19.1 0.752″	5.2 0.205″	3± 0.3 0.118″	6± 3.0 0.236″		

Electrical Properties

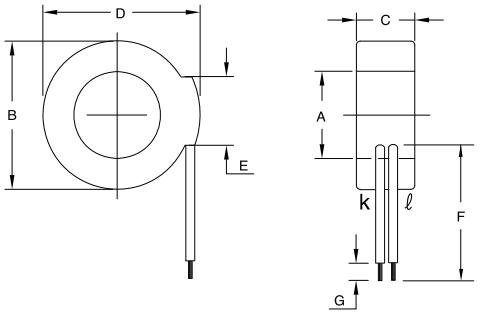
(Based on model TZ1L)

Output Voltage Properties	Vo=15mV min (at Io=25mA, R=1KΩ, f=60Hz)
Remanence Magnetism	T=10% Max (at IDC=50AT)
Thermal Properties	tv = Max 10% (at −10℃ ~ + 65℃)
Hair-Pin Properties	V″ = 6mV max (at IL=30A)
Pulse Width Properties	Tp= 2.5m sec min (at Vo = 15mV level)

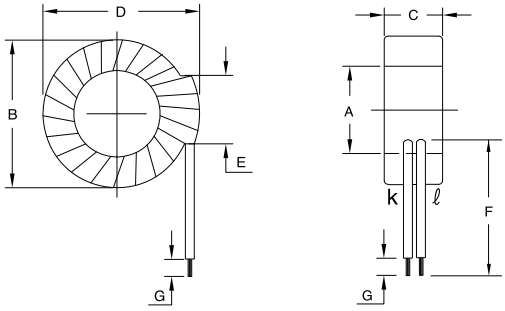
1) Output voltage properties : Being measured after demagnetized
2) Remanence magnetism : Variation of the output voltage between the virgin CT's and the saturated CT's
3) Thermal properties : Variation of the output voltage from -10℃ to +65℃ at the ambient temperature
4) Hair-pin properties : At the balanced current equivalent to 6 times of the rated current along around 360 degree, V″ is the maximum output voltage.
5) Pulse width properties : the wave width at Vo=10mV

Zero Phase Current Transformer

Drawing



TZ6T, TZ8T



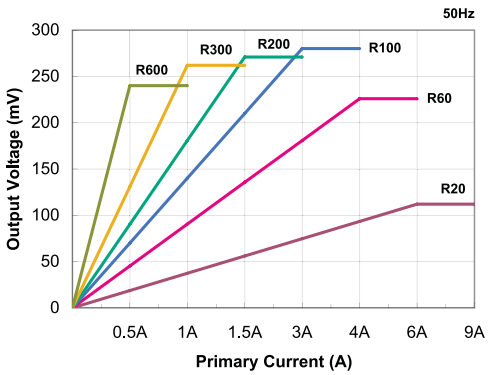
TZ11T, TZ42T

Dimension & Current Rating

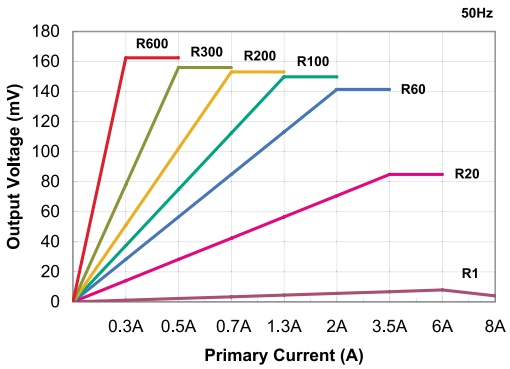
Wire lead type (unit : mm/inch)

Model No	A(min)	B(max)	C(max)	D(max)	E	F(±3.0)	G(±1.0)	Current Rating
TZ6T	22.5 0.886″	40.3 1.587″	12.7 0.500″	43.5 1.713″	17±1.0 0.669″	70.0 2.756″	6.0 0.236″	150A
TZ8T	33.0 1.299″	57.4 2.260″	18.2 0.717″	57.8 2.276″	19±1.0 0.748″	80.0 3.150″	6.0 0.236″	225A
TZ11T	72.0 2.835″	102.0 4.016″	15.0 0.591″	105.5 4.154″	22±2.0 0.866″	150.0 5.906″	3.0 0.118″	800A– 1200A
TZ42T	48.5 1.909″	75.4 2.969″	15.0 0.591″	77.0 3.031″	22±2.0 0.866″	103.0 4.055″	6.0 0.236″	400A

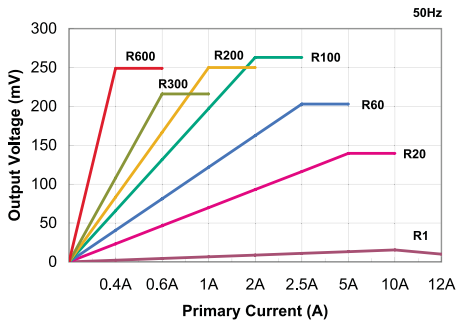
Secondary Burden & Output Voltage Graph



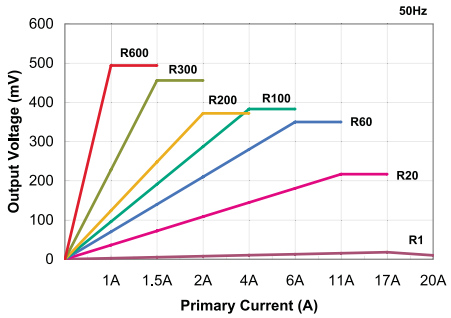
TZ1L



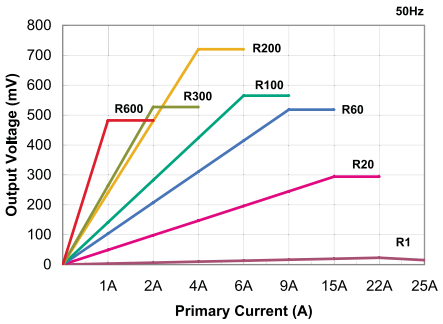
TZ53H/L10



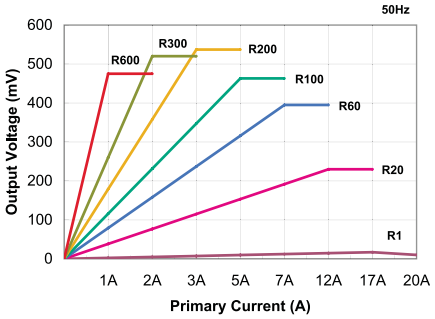
TZ1PL



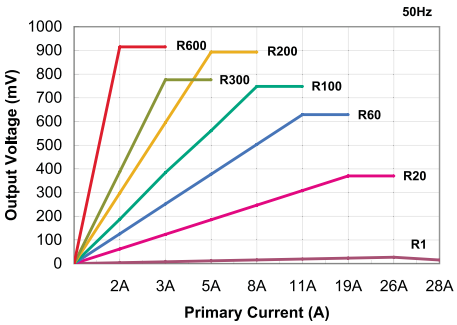
TZ2L9



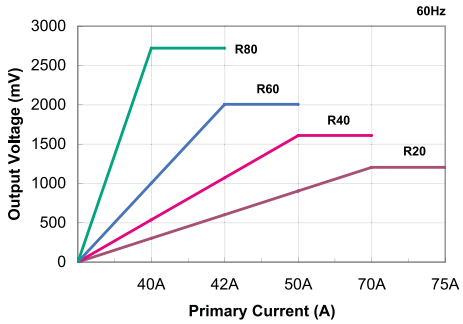
TZ3L



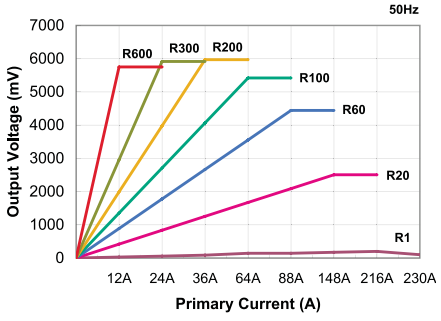
TZ3PL



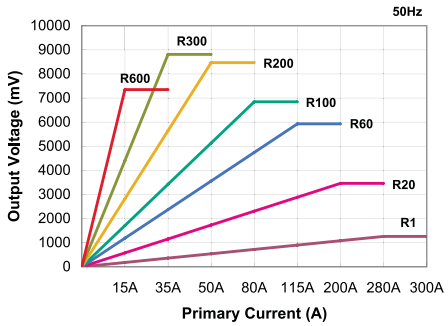
TZ4L



TZ6T



TZ8T



TZ42T