



Thousand Hundred Industrial Co., Ltd.

Zero-Phase Current Transformer (ZCT)

RoHS Compliant

thic@thic.net

UL-Applying

Part Number	Electrical Characteristic					MECHANICAL DIMENSION							Photos	DWG No.
	I _R	V _{out}	I _o	R _L	DCR	A	B	C	D	E	F	G		
	A	mV	mA	Ω	Ω (max)	mm/inch								
ZT01-1-100PL	15(30)	8.0	11.25	1K	65	<u>17.0</u> .669	<u>6.7</u> .264	<u>7.7</u> .303	<u>19</u> .748	<u>60</u> 2.362	<u>4.0</u> .157			
ZT01-2-100PL	30(50)	8.9	11.25	1K	42	<u>22.0</u> .866	<u>9.0</u> .354	<u>8.2</u> .0.323	<u>25</u> .984	<u>80</u> 3.15	<u>4.0</u> .157			
ZT01-3-100PL	50(70)	8.5	25	330	50	<u>24.0</u> .945	<u>10.5</u> .413	<u>9.0</u> .354	<u>26</u> 1.024	<u>100</u> 3.937	<u>4.0</u> .157			
ZT01-4-100PL	100(125)	17.0	25	1k	55	<u>30</u> 1.181	<u>14.7</u> 0.579	<u>9.2</u> .362	<u>32.2</u> 1.267	<u>150</u> 5.906	<u>4.0</u> .157			
ZT01-5-100PL	30(50)	7.5	11.25	1K	62	<u>22.2</u> 0.874	<u>9</u> 0.354	<u>8.4</u> 0.331	<u>25</u> .984	<u>90</u> 3.543	<u>4.0</u> 0.157			
ZT01-6-100PL	100(125)	7.5	11.25	1K	38	<u>30.0</u> 1.181	<u>14.7</u> .0.579	<u>9.2</u> .0.362	<u>31</u> 1.220	<u>80</u> 3.150	<u>4.0</u> .157			
ZT03-1-100PP	15(30)	6.5	11.25	750	44	<u>17</u> .679	<u>6.8</u> .268	<u>7.0</u> .276	<u>17.8</u> .701	<u>10</u> .394	<u>6.0</u> .236	<u>0.6</u> .024		
ZT03-3-100PP	15(25)	6.0	10	800	54	<u>17.6</u> .693	<u>5.1</u> .201	<u>6.5</u> .256	<u>17.8</u> .701	<u>14.3</u> .563	<u>6.0</u> .236	<u>1.0</u> .040		
ZT04-1-100PP	15(30)	8.0	11.25	1K	58	<u>23.9</u> .941	<u>6.7</u> .264	<u>6.5</u> .256	<u>16.5</u> .650	<u>20</u> .787	<u>3.5</u> .138	<u>0.8</u> .031		
ZT06-1-100PL	30(60)	8.0	11.25	330	89	<u>24.11</u> .954	<u>10.14</u> .402	<u>11.63</u> .469	<u>8.2</u> .323	<u>90</u> 3.354	<u>4.0</u> .166			



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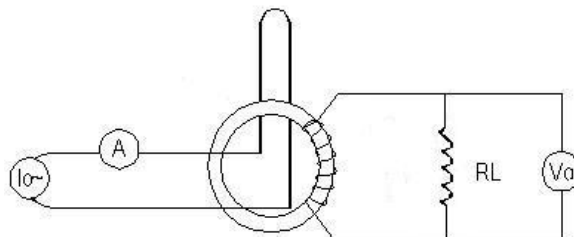
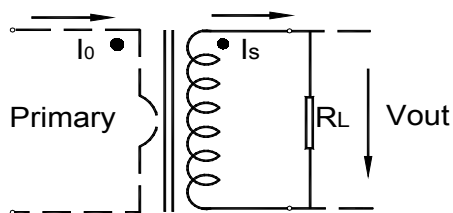
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UL-Applying

Part Number	Electrical Characteristic					MECHANICAL DIMENSION							Photos	DWG No.
	I_R	Vout	I_o	R_L	DCR	A	B	C	D	E	F	G		
	A	mV	mA	Ω	Ω (max)	mm/inch								
ZT07-2-100PP	15(30)	17	25	1K	55	$\frac{18.0}{.709}$	$\frac{4.5}{.177}$	$\frac{10}{.394}$	$\frac{20.8}{.819}$	$\frac{12.6}{.496}$	$\frac{6}{.236}$	$\frac{0.8}{.031}$		
ZT08-1-125PL	30(50)	7.2	11.25	1K	38	$\frac{21.6}{.850}$	$\frac{9.7}{.382}$	$\frac{8}{.315}$	$\frac{21.6}{.850}$	$\frac{16.9}{.665}$	$\frac{60}{2.362}$	$\frac{5}{.197}$		
ZT09-1-100PP	15(30)	14	11	2K	50	$\frac{22}{.866}$	$\frac{23}{.906}$	$\frac{8.3}{.327}$	$\frac{9}{.354}$	$\frac{19}{.748}$	$\frac{5.0}{.197}$	$\frac{0.80}{.031}$		
ZT11-2-100PP	15(30)	7.5	11.25	1K	50	$\frac{16.5}{.650}$	$\frac{5.8}{.228}$	$\frac{12.2}{.480}$	$\frac{17}{.669}$	$\frac{14.8}{.583}$	$\frac{4.0}{.157}$	$\frac{0.80}{.031}$		

ZCT Test Circrit

ZCT Unbalance Test



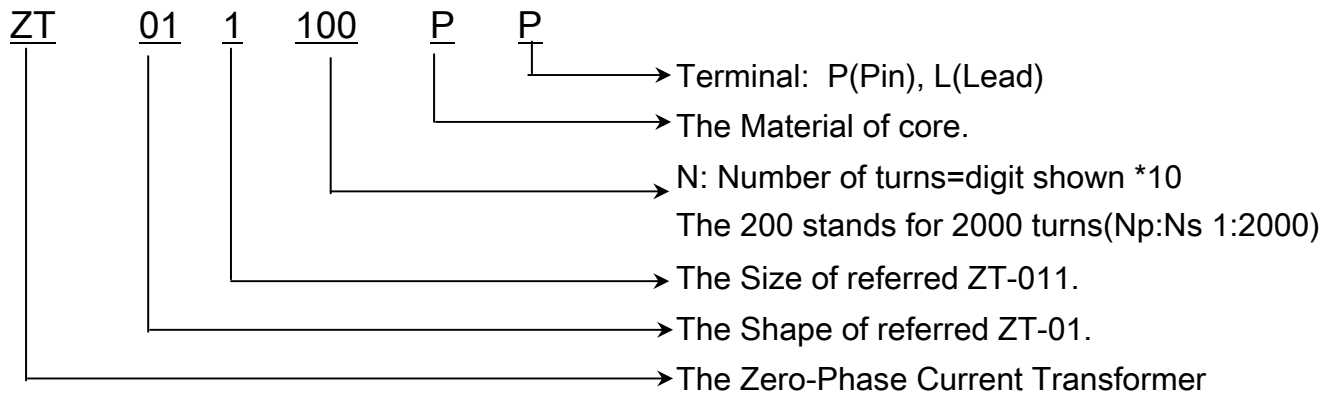


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Nomination



- Application:**
- Heater
 - Over Current Sensor
 - Earth leakage breaker
 - Ground fault circuit interrupter
 - Residual current circuit breaker
 - U.P.S. (Uninterrupted Power System)
 - Protection of Inverter (Air Conditioner etc)
 - Application leakage circuit interrupter
 - E.O.C.R. (Electronic Over Current Relay)
 - Motor Control (Motor Pump, Heat Control)

Frequency band :50/60Hz

Operating temperature: -25°C to +65°C

Storage Temperature Range -25°C to +85°C

Product comply with RoHS requirements.

Hi-POT: 2500V_{RMS}/1min between windings.

Product parts are in accordance with UL requirements.

Overinput property: $\%V = (V_o - V_o') / V_o * 100\%$

Here the V_{on} is the normal output voltage while feeding assigned leakage current IOU. and V_o' is the output voltage after overinput, at that time feeding a direct current I_{dc} which value is equal to corresponding rated current.