

AC Current Transformer



J&D PART NUMBER

JD4V

STANDARD ACCURACY

0.2 Class

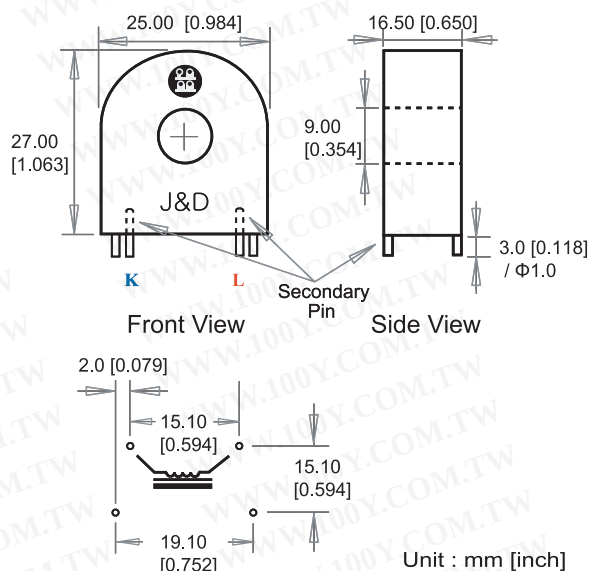
FEATURE

Vertical (PCB) Mounting Type

Electrical Properties

- ◆ Rated Current for 40A / 16mA
- ◆ Current Range for 1mA~150A
- ◆ DCR(Ω) for $199 \pm 10\%$
- ◆ Suggested burden resistor(Ω) for 50
- ◆ Operating Frequency for 50/60Hz
- ◆ Operating Temp. range for $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- ◆ High-Potential Voltage for a.c. 2.5KV / 1min
- ◆ Insulation Resistance for DC 500V / 100M Ω
- ◆ Data tested at $T_a=25^{\circ}\text{C}$

Drawing



Test Circuit

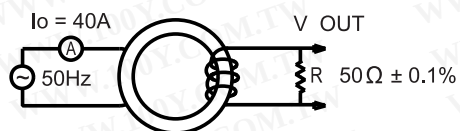


FIGURE 1

Ratio Error & Phase Shift Test Circuit

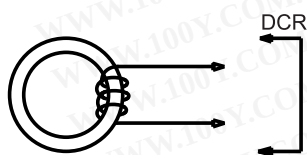
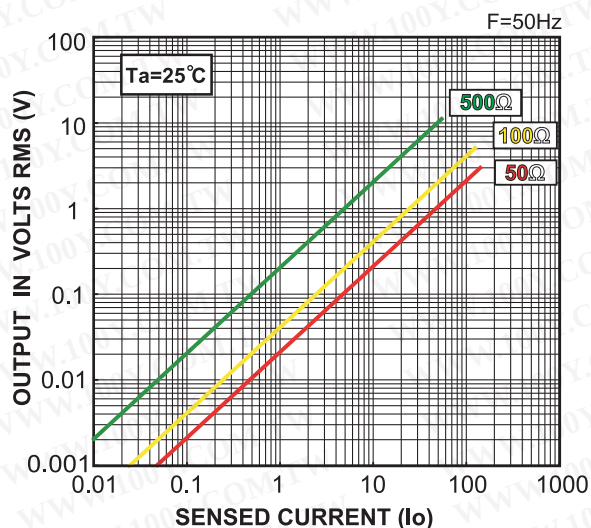


FIGURE 2

DCR Test Circuit

Output Voltage Data



Accuracy Data

Test Point	1A	2A	8A	40A	48A
Maximum. Linearity Error (%)	± 0.6	± 0.5	± 0.3	± 0.2	± 0.2
Maximum. Angle Error in Minutes	$\pm 30'$	$\pm 25'$	$\pm 15'$	$\pm 10'$	$\pm 10'$

■ ■ ■ AC Current Transformer



J&D PART NUMBER

STANDARD ACCURACY

FEATURE

JD5V

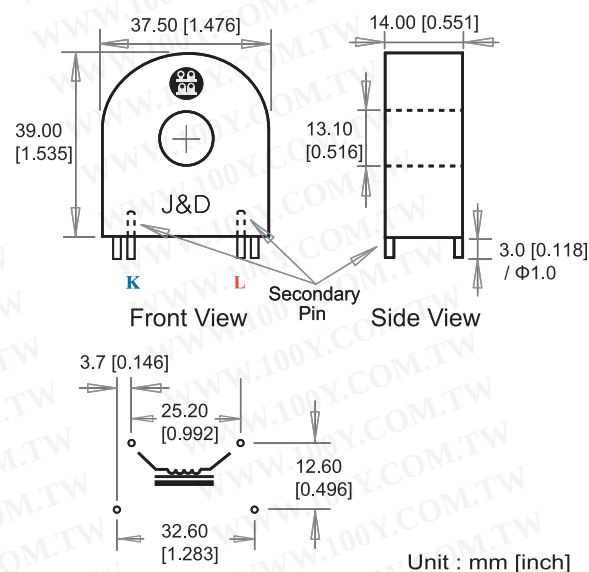
0.2 Class

Vertical (PCB) Mounting Type

Electrical Properties

- ◆ Rated Current for 120A / 48mA
- ◆ Current Range for 1mA~250A
- ◆ DCR(Ω) for $110 \pm 10\%$
- ◆ Suggested burden resistor(Ω) for 10
- ◆ Operating Frequency for 50/60Hz
- ◆ Operating Temp. range for $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- ◆ High-Potential Voltage for $\underline{a.c.}$ 2.5KV / 1min
- ◆ Insulation Resistance for DC 500V / 100M Ω
- ◆ Data tested at $T_a=25^{\circ}\text{C}$

Drawing



Test Circuit

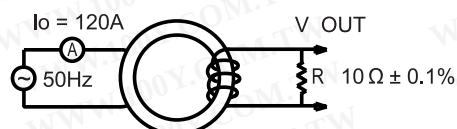


FIGURE 1

Ratio Error & Phase Shift Test Circuit

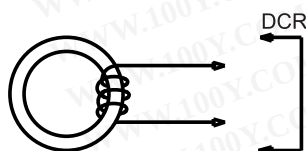
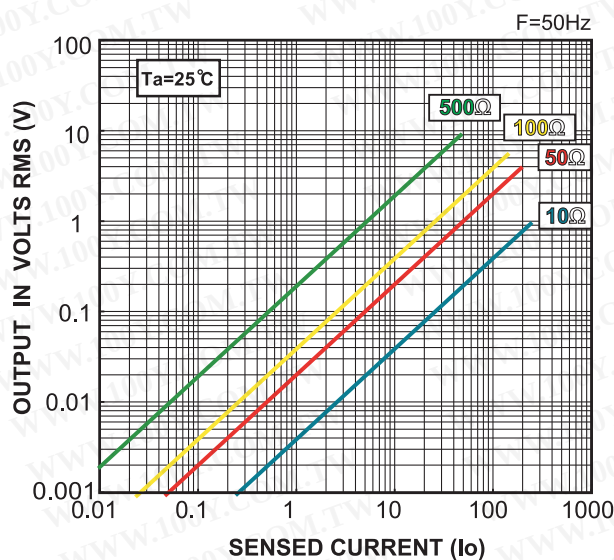


FIGURE 2

DCR Test Circuit

Output Voltage Data



Accuracy Data

Test Point	3A	6A	24A	120A	144A
Maximum. Linearity Error (%)	± 0.6	± 0.5	± 0.3	± 0.2	± 0.2
Maximum. Angle Error in Minutes	$\pm 30'$	$\pm 25'$	$\pm 15'$	$\pm 10'$	$\pm 10'$

AC Current Transformer



J&D PART NUMBER

JD12V

STANDARD ACCURACY

0.2 Class

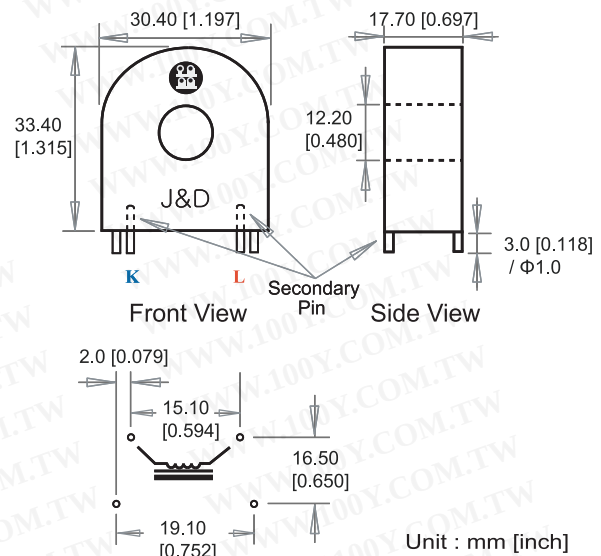
FEATURE

Vertical (PCB) Mounting Type

Electrical Properties

- ◆ Rated Current for 60A / 24mA
- ◆ Current Range for 1mA~240A
- ◆ DCR(Ω) for $150 \pm 10\%$
- ◆ Suggested burden resistor(Ω) for 10
- ◆ Operating Frequency for 50/60Hz
- ◆ Operating Temp. range for $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- ◆ High-Potential Voltage for $\text{a.c. } 2.5\text{KV} / 1\text{min}$
- ◆ Insulation Resistance for DC 500V / 100M Ω
- ◆ Data tested at $T_a=25^{\circ}\text{C}$

Drawing



Test Circuit

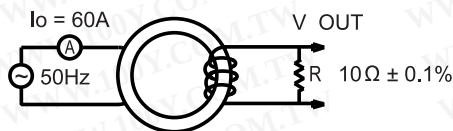


FIGURE 1

Ratio Error & Phase Shift Test Circuit

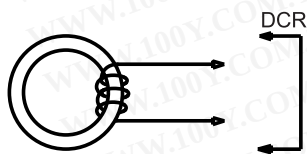
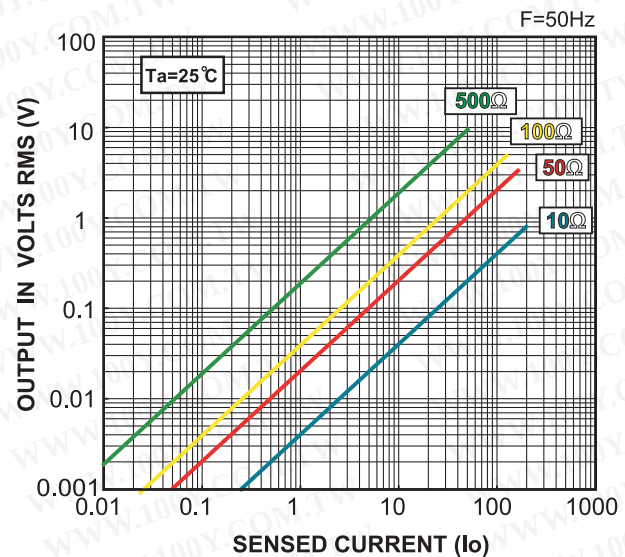


FIGURE 2

DCR Test Circuit

Output Voltage Data



Accuracy Data

Test Point	1.5A	3A	12A	60A	72A
Maximum. Linearity Error (%)	± 0.6	± 0.5	± 0.3	± 0.2	± 0.2
Maximum. Angle Error in Minutes	$\pm 30'$	$\pm 25'$	$\pm 15'$	$\pm 10'$	$\pm 10'$

AC Current Transformer

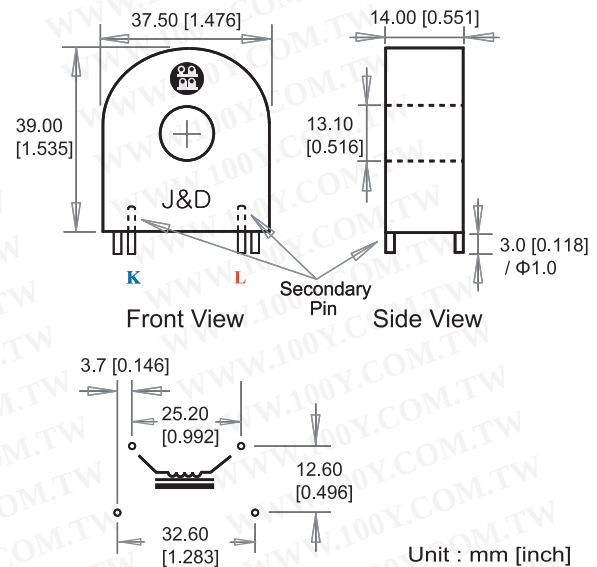


J&D PART NUMBER	STANDARD ACCURACY	FEATURE
JD54V	0.2 Class	Vertical (PCB) Mounting Type

Electrical Properties

- ◆ Rated Current for 200A / 50mA
- ◆ Current Range for 1mA~350A
- ◆ DCR(Ω) for $290 \pm 10\%$
- ◆ Suggested burden resistor(Ω) for 10
- ◆ Operating Frequency for 50/60Hz
- ◆ Operating Temp. range for $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- ◆ High-Potential Voltage for a.c 2.5KV / 1min
- ◆ Insulation Resistance for DC 500V / 100M Ω
- ◆ Data tested at $T_a=25^{\circ}\text{C}$

Drawing



Test Circuit

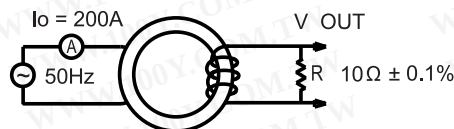


FIGURE 1

Ratio Error & Phase Shift Test Circuit

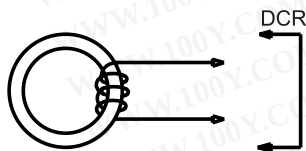
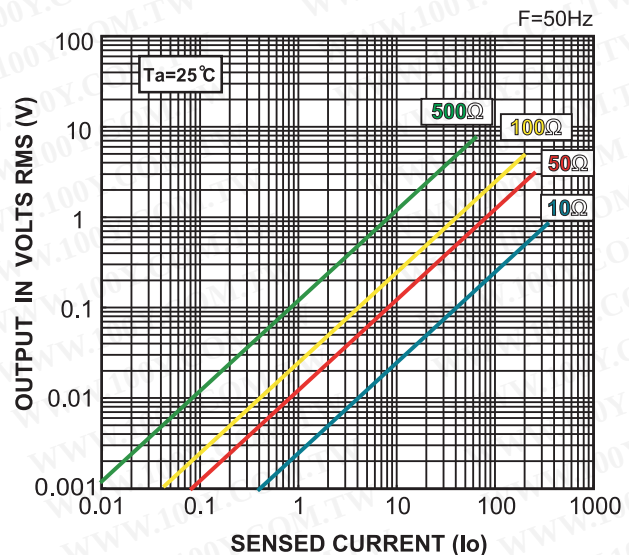


FIGURE 2

DCR Test Circuit

Output Voltage Data



Accuracy Data

Test Point	5A	10A	40A	200A	240A
Maximum. Linearity Error (%)	± 0.6	± 0.5	± 0.3	± 0.2	± 0.2
Maximum. Angle Error in Minutes	$\pm 30'$	$\pm 25'$	$\pm 15'$	$\pm 10'$	$\pm 10'$