

## SS1503 Series Rectangular AC Current Transformer

LI130V2 /2016

### 1. Features:

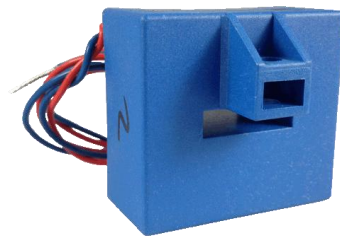
- ① Directly fixed on the  $17 \times 4$  flat busbar ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable .

### 2. Ambient Conditions:

- ① Ambient temperature:  $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- ② Relative humidity:  $\leq 90\%$  at  $40^{\circ}\text{C}$ ;
- ③ Atmospheric pressure:  $860 \sim 1060\text{mbar}$ (about  $650 \sim 800\text{mmHg}$ ).

### 3. Operating Frequency Range: 20Hz~1k Hz

### 4. Insulation Thermal Class: Class B ( $130^{\circ}\text{C}$ )

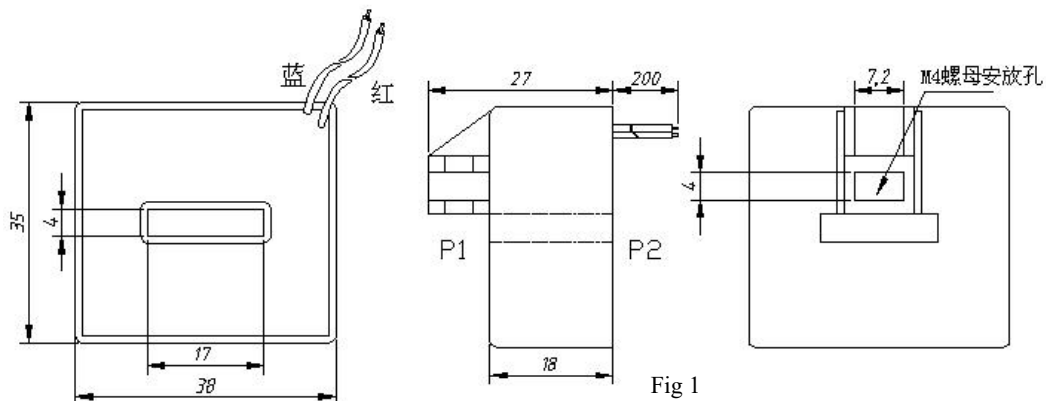


### 5. Safety Features:

- ① Insulation resistance:  $>1000\text{M}\Omega$  in normal condition;
- ② Insulation withstand voltages:  $6\text{KV}$   $50\text{Hz}/1\text{min}$ ;
- ③ Fire retardancy: In conformity with  $\text{UL94-V0}$ .

### 6. Outline Drawing, Installation Dimension and Coil Diagram: (tolerance $\pm 0.5\text{mm}$ )

- ① Outline drawing and installation dimensions are shown in Figure 1 :



- ② The coil diagram is shown in Figure 2 :

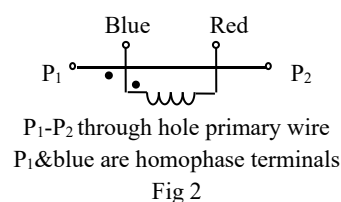
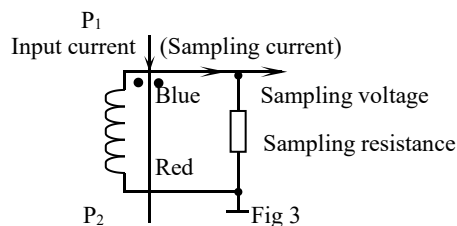


Fig 2

## 7. Performance Parameters:

See the table below for the application performance parameters shown in Figure 3.



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
SS1503-01	15A	0.1A	6Ω	0.6V	≤30'	≤0.5%	≥ 2 times of the rated value
SS1503-02	20A		8Ω	0.8V	≤30'	≤0.5%	
SS1503-03	25A		10Ω	1.0V	≤30'	≤0.5%	
SS1503-04	35A		14Ω	1.4V	≤30'	≤0.5%	
SS1503-05	40A		16Ω	1.6V	≤30'	≤0.5%	
SS1503-06	50A		20Ω	2.0V	≤30'	≤0.5%	
SS1503-07	65A		26Ω	2.6V	≤30'	≤0.5%	
SS1503-08	75A		30Ω	3.0V	≤30'	≤0.5%	

### • Notes:

- In practical applications, the sampling resistance should be less than or equal to the Rated value given in the above table, which will improve the nonlinearity and Phase Shift;
- If the conversion ratio required by the user is different from the above, it can be customized according to the user's requirements.

## 8. Attention:

- ① The primary winding of the current transformer should be connected in series with the current circuit under test. The secondary winding should be operated close to a short-circuit condition.
- ② The secondary circuit of the current transformer must not be open-circuited. Therefore, do not install a fuse in the secondary circuit.

## SS2003 Series Rectangular AC Current Transformer

LI131V2 /2016

### 1. Features:

- ① Directly fixed on the  $22 \times 4$  flat busbar ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable .

### 2. Ambient Conditions:

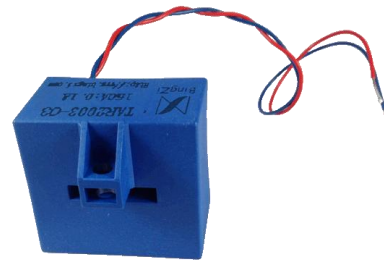
- ① Ambient temperature:  $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- ② Relative humidity:  $\leq 90\%$  at  $40^{\circ}\text{C}$ ;
- ③ Atmospheric pressure:  $860 \sim 1060\text{mbar}$ (about  $650 \sim 800\text{mmHg}$ ).

### 3. Operating Frequency Range: $20\text{Hz} \sim 1\text{k Hz}$

### 4. Insulation Thermal Class: Class B ( $130^{\circ}\text{C}$ )

### 5. Safety Features:

- ① Insulation resistance:  $>1000\text{M}\Omega$  in normal condition;
- ② Insulation withstand voltages:  $6\text{KV } 50\text{Hz}/1\text{min}$ ;
- ③ Fire retardancy: In conformity with  $\text{UL94-V0}$ .



### 6. Outline Drawing, Installation Dimension and Coil Diagram: (tolerance $\pm 0.5\text{mm}$ )

- ① Outline drawing and installation dimensions are shown in Figure 1 :

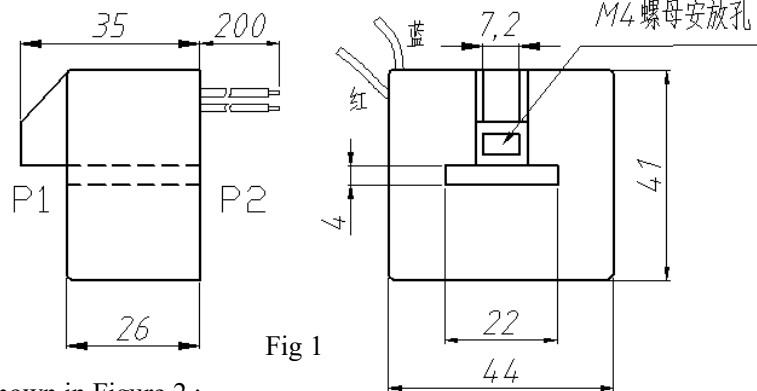


Fig 1

- ② The coil diagram is shown in Figure 2 :

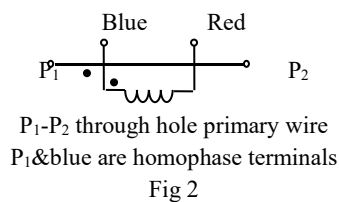
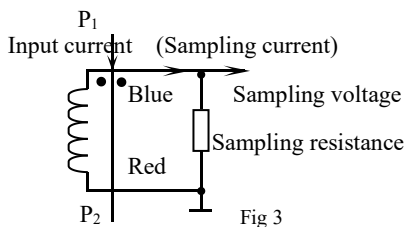


Fig 2

## 7. Performance Parameters:

See the table below for the application performance parameters shown in Figure 3.



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
SS2003-01	90A	0.1A	55Ω	5.5V	≤30'	≤0.5%	≥ 2 times of the rated value
SS2003-02	110A		65Ω	6.5V	≤30'	≤0.5%	
SS2003-03	150A		90Ω	9.0V	≤30'	≤0.5%	

### • Notes:

- In practical applications, the sampling resistance should be less than or equal to the Rated value given in the above table, which will improve the nonlinearity and Phase Shift;
- If the conversion ratio required by the user is different from the above, it can be customized according to the user's requirements.

## 8. Attention:

- ① The primary winding of the current transformer should be connected in series with the current circuit under test. The secondary winding should be operated close to a short-circuit condition.
- ② The secondary circuit of the current transformer must not be open-circuited. Therefore, do not install a fuse in the secondary circuit.

## SS2243 Series Rectangular AC Current Transformer

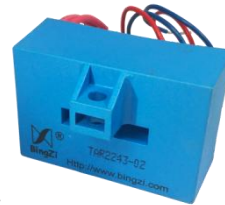
LI006 V4 /2016

### 1. Features:

- ① Directly fixed on the  $22 \times 4.5$  flat busbar ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable.

### 2. Ambient Conditions:

- ① Ambient temperature:  $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- ② Relative humidity:  $\leq 90\%$  at  $40^{\circ}\text{C}$ ;
- ③ Atmospheric pressure:  $860 \sim 1060\text{mbar}$ (about  $650 \sim 800\text{mmHg}$ ).



### 3. Operating Frequency Range: 20Hz~1k Hz

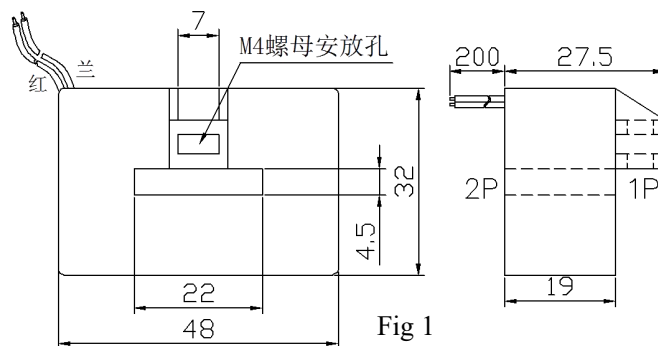
### 4. Insulation Thermal Class: Class B ( 130 °C )

### 5. Safety Features:

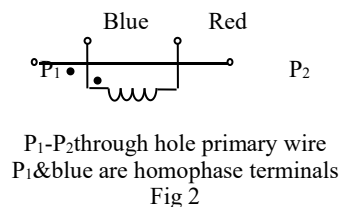
- ① Insulation resistance:  $>1000\text{M}\Omega$  in normal condition;
- ② Insulation withstand voltages:  $6\text{KV } 50\text{Hz}/1\text{min}$ ;
- ③ Fire retardancy: In conformity with UL94-V0.

### 6. Outline Drawing, Installation Dimension and Coil Diagram:(tolerance $\pm 0.5\text{mm}$ )

- ① Outline drawing and installation dimensions are shown in Figure 1 :



- ② The coil diagram is shown in Figure 2 :



## 7. Performance Parameters:

See the table below for the application performance parameters shown in Figure 3.

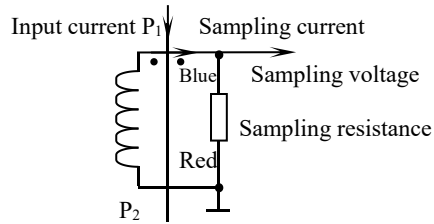


Fig 3

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
SS2243-01	200A	1 00mA	3 0Ω	3V	≤30'	≤0.5%	≥3 times of the rated value
SS2243-02	200A	200mA	7.5Ω	1.5V	≤30'	≤0.5%	

### ● Notes:

- In practical applications, the sampling resistance should be less than or equal to the Rated value given in the above table, which will improve the nonlinearity and Phase Shift;
- If the conversion ratio required by the user is different from the above, it can be customized according to the user's requirements.

## 8. Attention:

- ① The primary winding of the current transformer should be connected in series with the current circuit under test. The secondary winding should be operated close to a short-circuit condition.
- ② The secondary circuit of the current transformer must not be open-circuited. Therefore, do not install a fuse in the secondary circuit.

## SS3004 Series Rectangular AC Current Transformer

LI132V2 /2016

### 1. Features:

- ① Directly fixed on the  $32 \times 5$  flat busbar ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable.

### 2. Ambient Conditions:

- ① Ambient temperature:  $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- ② Relative humidity:  $\leq 90\%$  at  $40^{\circ}\text{C}$ ;
- ③ Atmospheric pressure:  $860 \sim 1060\text{mbar}$ (about  $650 \sim 800\text{mmHg}$ ).

### 3. Operating Frequency Range: 20Hz~1k Hz

### 4. Insulation Thermal Class: Class B ( $130^{\circ}\text{C}$ )

### 5. Safety Features:

- ① Insulation resistance:  $>1000\text{M}\Omega$  in normal condition;
- ② Insulation withstand voltages:  $6\text{KV}$   $50\text{Hz}/1\text{min}$ ;
- ③ Fire retardancy: In conformity with  $\text{UL94-V0}$ .

### 6. Outline Drawing, Installation Dimension and Coil Diagram:(tolerance $\pm 0.5\text{mm}$ )

- ① Outline drawing and installation dimensions are shown in Figure 1 :

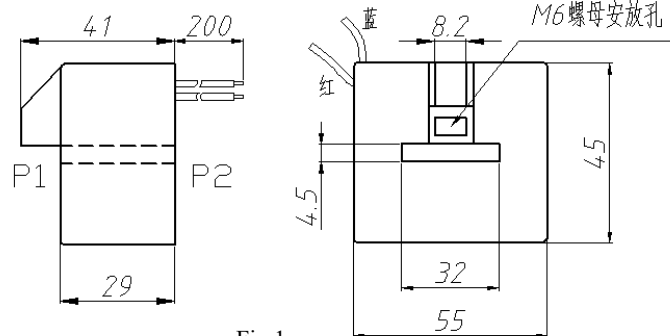
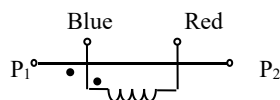


Fig 1

- ② The coil diagram is shown in Figure 2 :

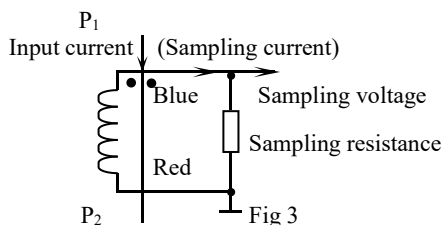


$P_1$ - $P_2$ through hole primary wire  
 $P_1$ &blue are homophase terminals

Fig 2

## 7. Performance Parameters:

See the table below for the application performance parameters shown in Figure 3.



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
SS3004-01	175A	0.1A	130Ω	13.0V	≤30'	≤0.5%	≥ 2 times of the rated value
SS3004-02	210A		155Ω	15.5V	≤30'	≤0.5%	
SS3004-03	250A		185Ω	18.5V	≤30'	≤0.5%	

### • Notes:

- In practical applications, the sampling resistance should be less than or equal to the Rated value given in the above table, which will improve the nonlinearity and Phase Shift;
- If the conversion ratio required by the user is different from the above, it can be customized according to the user's requirements.

## 8. Attention:

- ① The primary winding of the current transformer should be connected in series with the current circuit under test. The secondary winding should be operated close to a short-circuit condition.
- ② The secondary circuit of the current transformer must not be open-circuited. Therefore, do not install a fuse in the secondary circuit.



## SS3046 Series Rectangular AC Current Transformer

LI134V2 /2016

### 1. Features:

- ① Directly fixed on the  $32 \times 6.5$  flat busbar ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable.

### 2. Ambient Conditions:

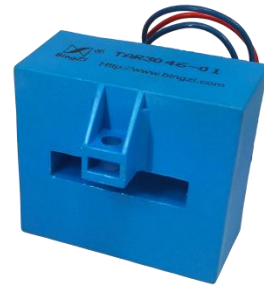
- ① Ambient temperature:  $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- ② Relative humidity:  $\leq 90\%$  at  $40^{\circ}\text{C}$ ;
- ③ Atmospheric pressure:  $860 \sim 1060\text{mbar}$ (about  $650 \sim 800\text{mmHg}$ ).

### 3. Operating Frequency Range: 20Hz~1k Hz

### 4. Insulation Thermal Class: Class B ( $130^{\circ}\text{C}$ )

### 5. Safety Features:

- ① Insulation resistance:  $>1000\text{M}\Omega$  in normal condition;
- ② Insulation withstand voltages:  $6\text{KV } 50\text{Hz}/1\text{min}$ ;
- ③ Fire retardancy: In conformity with UL94-V0.



### 6. Outline Drawing, Installation Dimension and Coil Diagram: (tolerance $\pm 0.5\text{mm}$ )

- ① Outline drawing and installation dimensions are shown in Figure 1 :

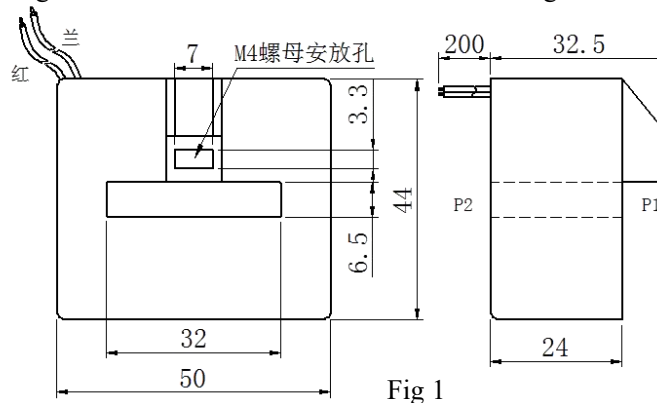
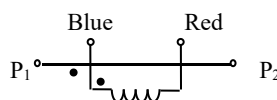


Fig 1

- ② The coil diagram is shown in Figure 2 :

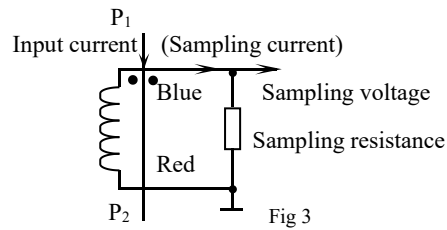


P<sub>1</sub>-P<sub>2</sub>through hole primary wire  
P<sub>1</sub>&blue are homophase terminals

Fig 2

## 7. Performance Parameters:

See the table below for the application performance parameters shown in Figure 3.



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
SS3046-01	400A	100mA	80Ω	8V	≤30'	≤0.5%	≥3 times of the rated value
SS3046-02	400A	200mA	20Ω	4V	≤30'	≤0.5%	

• Notes:

- In practical applications, the sampling resistance should be less than or equal to the Rated value given in the above table, which will improve the nonlinearity and Phase Shift;
- If the conversion ratio required by the user is different from the above, it can be customized according to the user's requirements.

## 8. Attention:

- The primary winding of the current transformer should be connected in series with the current circuit under test. The secondary winding should be operated close to a short-circuit condition.
- The secondary circuit of the current transformer must not be open-circuited. Therefore, do not install a fuse in the secondary circuit.

## SS4076 Series Rectangular AC Current Transformer

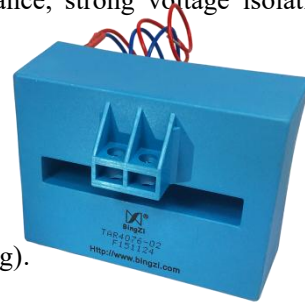
LI 135V2 /2016

### 1. Features:

- ① Directly fixed on the  $62 \times 8.5$  flat busbar ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable .

### 2. Ambient Conditions:

- ① Ambient temperature:  $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- ② Relative humidity:  $\leq 90\%$  at  $40^{\circ}\text{C}$ ;
- ③ Atmospheric pressure:  $860 \sim 1060\text{mbar}$ (about  $650 \sim 800\text{mmHg}$ ).



### 3. Operating Frequency Range: 20Hz~1k Hz

### 4. Insulation Thermal Class: Class B ( 130 °C )

### 5. Safety Features:

- ① Insulation resistance:  $>1000\text{M}\Omega$  in normal condition;
- ② Insulation withstand voltages:  $6\text{KV } 50\text{Hz}/1\text{min}$ ;
- ③ Fire retardancy: In conformity with UL94-V0.

### 6. Outline Drawing, Installation Dimension and Coil Diagram:(tolerance $\pm 0.5\text{mm}$ )

- ① Outline drawing and installation dimensions are shown in Figure 1:

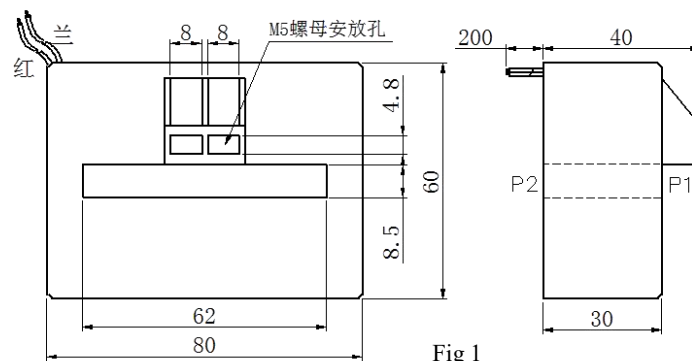
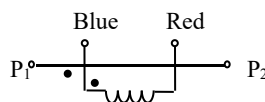


Fig 1

- ② The coil diagram is shown in Figure 2:

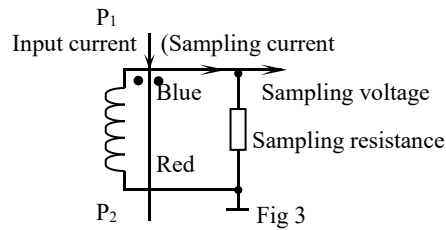


P<sub>1</sub>-P<sub>2</sub>through hole primary wire  
P<sub>1</sub>Blue are homophase terminals

Fig 2

## 7. Performance Parameters:

See the table below for the application performance parameters shown in Figure 3.



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
SS4076-01	800A	100mA	100Ω	10V	≤30'	≤0.5%	≥4 times of the rated value
SS4076-02	800A	200mA	25Ω	5V	≤30'	≤0.5%	

### ● Notes:

- In practical applications, the sampling resistance should be less than or equal to the Rated value given in the above table, which will improve the nonlinearity and Phase Shift;
- If the conversion ratio required by the user is different from the above, it can be customized according to the user's requirements.

## 8. Attention:

- ① The primary winding of the current transformer should be connected in series with the current circuit under test. The secondary winding should be operated close to a short-circuit condition.
- ② The secondary circuit of the current transformer must not be open-circuited. Therefore, do not install a fuse in the secondary circuit.

## SS5006 Series Rectangular AC Current Transformer

LI133V2 /2016

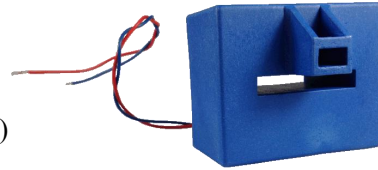
### 1. Features:

- ① Directly fixed on the  $52 \times 7$  flat busbar ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable .

### 2. Ambient Conditions:

- ① Ambient temperature:  $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- ② Relative humidity:  $\leq 90\%$  at  $40^{\circ}\text{C}$ ;
- ③ Atmospheric pressure:  $860 \sim 1060\text{mbar}$ (about  $650 \sim 800\text{mmHg}$ ).

### 3. Operating Frequency Range: $20\text{Hz} \sim 1\text{k Hz}$



### 4. Insulation Thermal Class: Class B ( $130^{\circ}\text{C}$ )

### 5. Safety Features:

- ① Insulation resistance:  $>1000\text{M}\Omega$  in normal condition;
- ② Insulation withstand voltages:  $6\text{KV } 50\text{Hz}/1\text{min}$ ;
- ③ Fire retardancy: In conformity with  $\text{UL94-V0}$ .

### 6. Outline Drawing, Installation Dimension and Coil Diagram:(tolerance $\pm 0.5\text{mm}$ )

- ① Outline drawing and installation dimensions are shown in Figure 1;

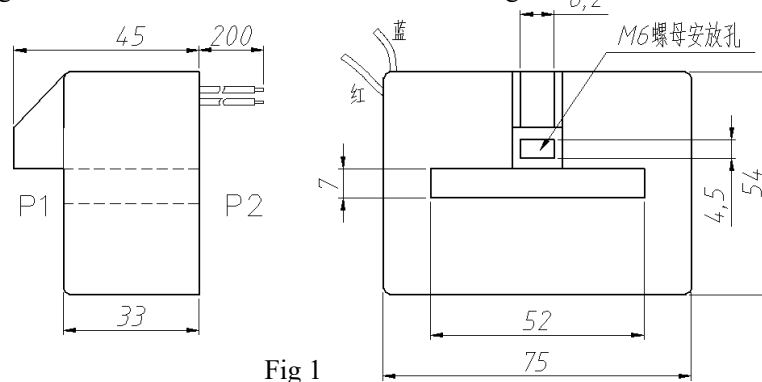
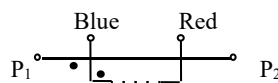


Fig 1

- ② The coil diagram is shown in Figure 2:

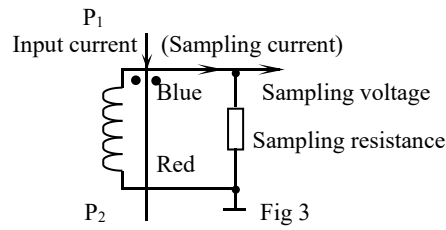


$P_1$ - $P_2$  through hole primary wire  
 $P_1$ & blue are homophase terminals

Fig 1

## 7. Performance Parameters:

See the table below for the application performance parameters shown in Figure 3.



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
SS5006-01	320A	0.1A	260Ω	26V	≤30'	≤0.5%	≥ 2 times of the rated value
SS5006-02	370A		300Ω	30V	≤30'	≤0.5%	
SS5006-03	410A		340Ω	34V	≤30'	≤0.5%	
SS5006-04	480A		400Ω	40V	≤30'	≤0.5%	
SS5006-05	550A		450Ω	45V	≤30'	≤0.5%	
SS5006-06	610A		500Ω	50V	≤30'	≤0.5%	

### • Notes:

- In practical applications, the sampling resistance should be less than or equal to the rated value given in the above table, which will improve the nonlinearity and Phase Shift;
- If the conversion ratio required by the user is different from the above, it can be customized according to the user's requirements.

## 8. Attention:

- ① The primary winding of the current transformer should be connected in series with the current circuit under test. The secondary winding should be operated close to a short-circuit condition.
- ② The secondary circuit of the current transformer must not be open-circuited. Therefore, do not install a fuse in the secondary circuit.