

TAK006 Series Split Core AC Current Transformer

1. Features:

Compact in size with high load capacity; open-close design, easy to install and use, widely applied in power operation, maintenance and reconstruction projects.

2. Ambient Conditions:

- ① Operating temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: $860 \sim 1060$ mbar (about $650 \sim 800$ mmHg).

3. Operating Frequency Range: 50Hz~1kHz

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

5. Safety Features:

- ① Insulation resistance: $>100\text{M}\Omega$ in normal condition;
- ② Insulation withstand voltages: 1KV $50\text{Hz}/1$ min;
- ③ Fire retardancy: In conformity with UL94-V0 ;
- ④ Mechanical strength: opening and closing times ≥ 1000 times.

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

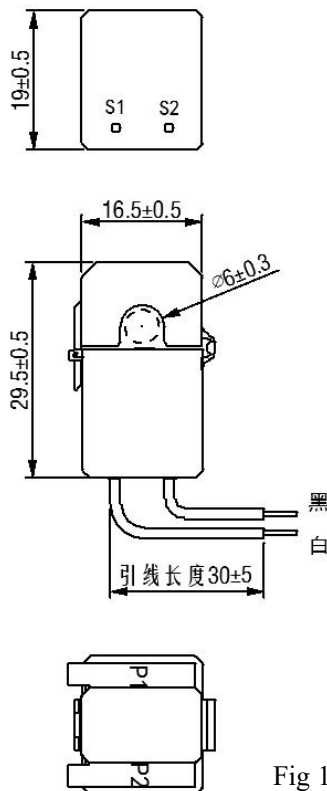


Fig 1

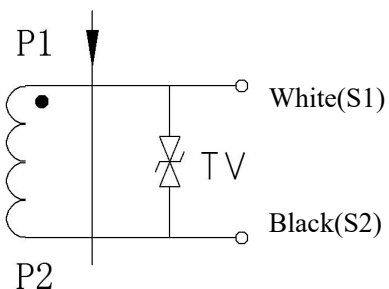
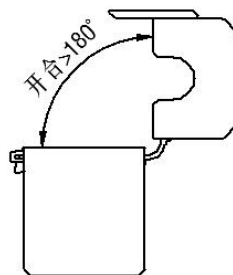


Fig 2

7. Typical Applications and Performance Parameters:

See the table below for performance parameters when applied as shown in Figure 3.

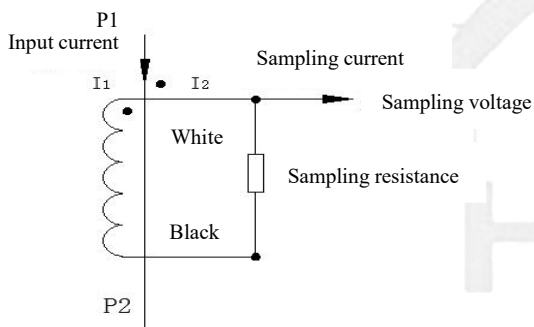


Fig 3

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance (R_L)	Rated Sampling Voltage	Non-linearity	Linear Range
TAK006-01	1A	1 mA	10 Ω	10mV	2%	≥ 1.2 times of the rated value
TAK006-02	2A	2.5mA	8 Ω	20mV	2%	≥ 1.2 times of the rated value
TAK006-03	5A	5mA	10 Ω	50mV	2%	≥ 1.2 times of the rated value
TAK006-04	10A	10mA	5 Ω	50mV	2%	≥ 1.2 times of the rated value
TAK006-05	20A	25mA	5 Ω	125mV	2%	≥ 1.2 times of the rated value

8. Attention:

- ① Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TAK010 Series Split Core AC Current Transformer

1. Features:

- ① Open and close, easy to use;
- ② The magnetic core material is ferrite, which is often used for current measurement, monitoring and protection of AC motors, lighting equipment, air compressors, etc. Compatible with similar products at home and abroad.

2. Ambient Conditions:

- ① Operating temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: $860 \sim 1060$ mbar (about $650 \sim 800$ mmHg).

3. Operating Frequency Range: 50Hz~ 200kHz

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

7. Safety Features:

- ① Insulation resistance: $>100\text{M}\Omega$ in normal condition;
- ② Insulation withstand voltages: 1KV $50\text{Hz}/1$ min;
- ③ Fire retardancy: In conformity with UL94-V0 ;
- ④ Mechanical strength: opening and closing times ≥ 1000 times.

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

① The outline drawing and installation dimensions are shown in Figure 1:

② The coil diagram is shown in Figure 2:

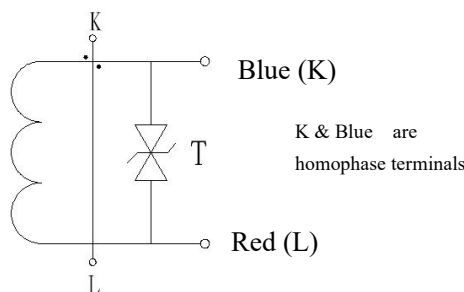


Fig 2

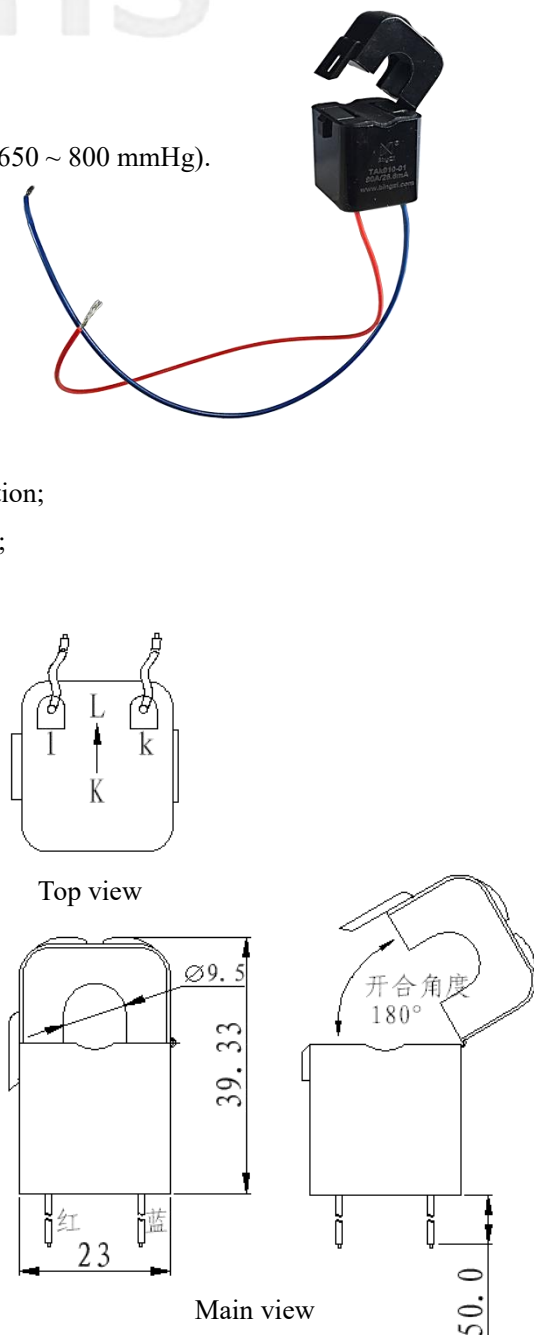
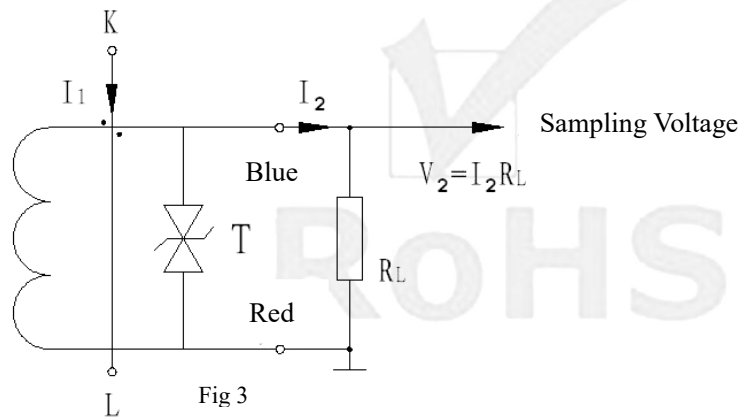


Fig 1

7. Typical Applications and Performance Parameters:

See the table below for performance parameters when applied as shown in Figure 3.



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance (RL)	Rated Sampling Voltage	Non-linearity	Linear Range
TAK010-01	80A	26.6 mA	115Ω	3V	≤ 2%	1.5 times of the rated value

9. Attention:

- ① Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TAK016 Series Split Core AC Current Transformer for measuring alternating current



The TAK016 Series Split Core AC Current Transformer is a type of current transformer used for measuring alternating current. It is designed to be easily installed around a conductor without the need to disconnect the circuit. The output of the transformer is proportional to the current flowing through the conductor and can be used for various monitoring and control applications.

If you have specific questions about the TAK016 Series Split Core AC Current Transformer or need more detailed information, feel free to ask!

1. Features:

- ① Split-core design provides easy installation and use.
- ② Made of ferrite magnetic core material, commonly used for AC current measurement, monitoring and protection in motors, lighting equipment, air compressors, etc.

2. Ambient Conditions:

- ① Operating temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: 860 ~ 1060 mbar (about 650 ~ 800 mmHg).

3. Operating Frequency Range: 50Hz~ 200kHz

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

9. Safety Features:

- ① Insulation resistance: >100MΩ in normal condition;
- ② Insulation withstand voltages: 1KV 50Hz/1 min;
- ③ Fire retardancy: In conformity with UL94-V0.

6. Outline Drawing, Installation Dimension and Coil Diagram: (Tolerance ± 0.5mm)

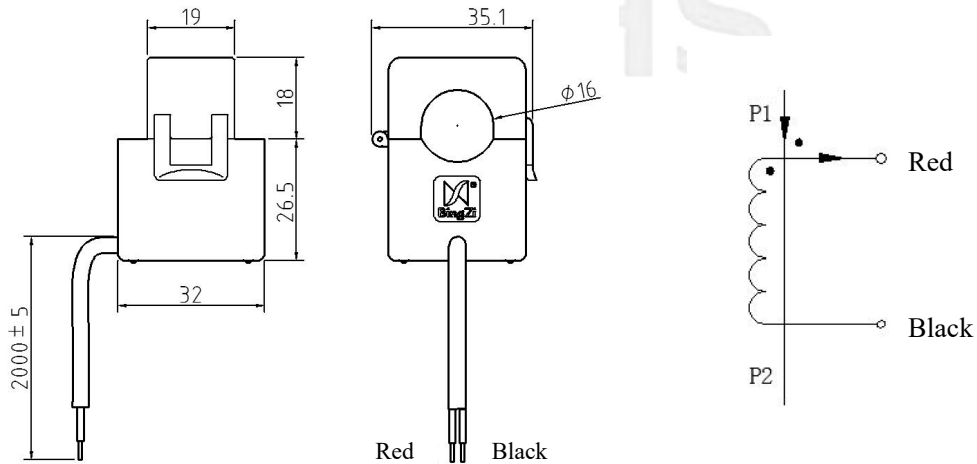


Fig 1

Fig 2



7. Typical Applications and Performance Parameters:

See the table below for performance parameters when applied as shown in Figure 3.

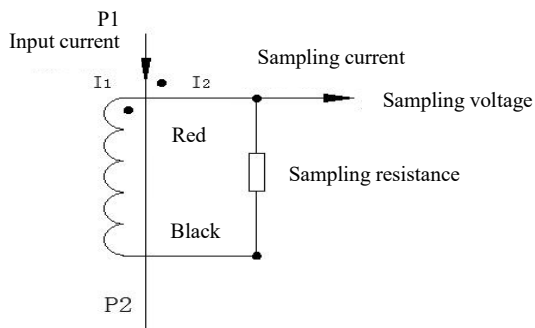


Fig 3

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance (R _L)	Rated Sampling Voltage	Non-linearity	Linear Range	Withstand Voltage (kV)
TAK016-01	120A	40mA	7.5Ω	0.3V	≤0.5%	3 times of the rated value	≥2

TAK024 Series Split Core AC Current Transformer

1. Features:

Compact in size with high load capacity; split-core design provides easy installation and use. Widely applied in power system maintenance and electrical infrastructure upgrades.

2. Ambient Conditions:

- ① Operating temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: 860 ~ 1060 mbar (about 650 ~ 800 mmHg).

3. Operating Frequency Range: 50Hz~ 200kHz

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

10. Safety Features:

- ① Insulation resistance: $>100\text{M}\Omega$ in normal condition;
- ② Insulation withstand voltages: 2KV 50Hz/1 min;
- ③ Fire retardancy: In conformity with UL94-V0.

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

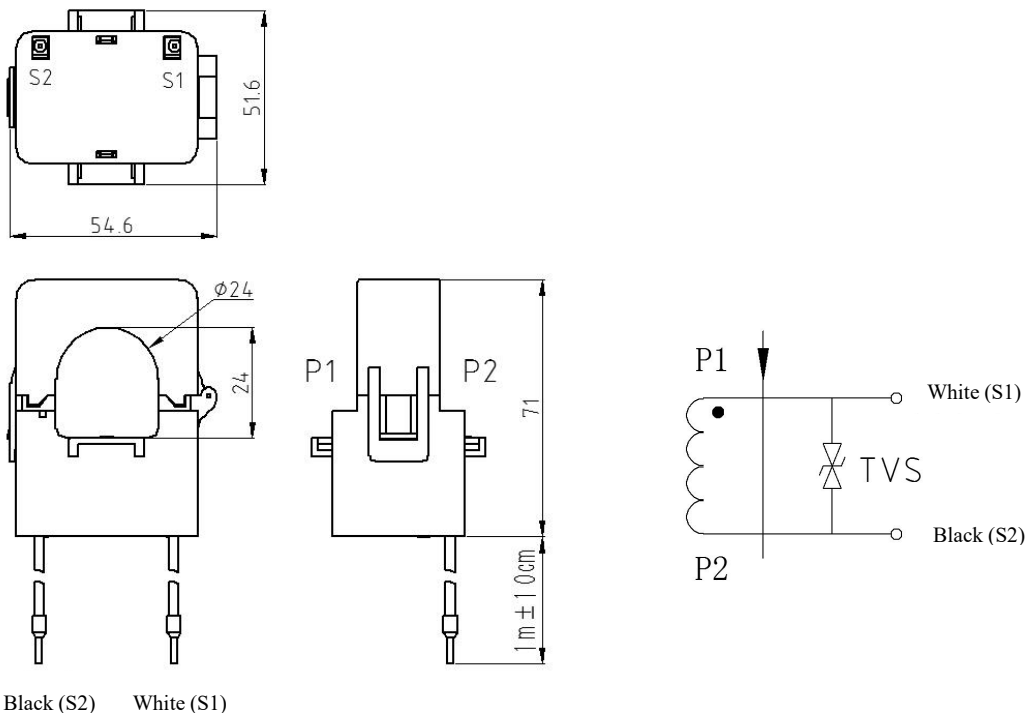


Fig 1

Fig 2

7. Typical Applications and Performance Parameters:

See the table below for performance parameters when applied as shown in Figure 3.

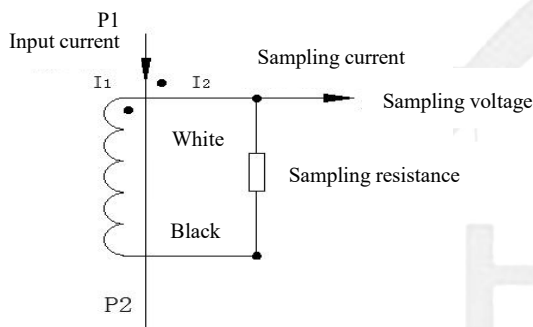


Fig 3

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance (R_L)	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
TAK024-01	100A	100mA	5 Ω	0.5V	$\leq 50'$	5‰	≥ 1.2 times of the rated value
TAK024-02	150A	75 mA	10 Ω	0.75 V	$\leq 50'$	5‰	≥ 1.2 times of the rated value
TAK024-03	200A	66.7mA	15 Ω	1.0 V	$\leq 50'$	5‰	≥ 1.2 times of the rated value

9. Attention:

- ① Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

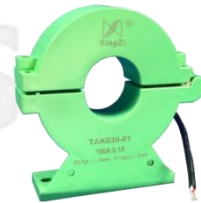
TAK030 Series Split Core AC Current Transformer

1. Features:

- ① Busbar through core, flexible wire lead out, plate installation;
- ② Fully-encapsulated, strong mechanical and environmental endurance, and strong voltage isolation.

2. Ambient Conditions:

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



3. Operating Frequency Range : 50Hz~400Hz

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: 6kV 50Hz / 1 min ;
- ③ Fire Retardant: In conformity with UL94-V0.

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

- ① The outline drawing and installation dimensions are shown in Figure 1:
- ② The coil diagram is shown in Figure 2:

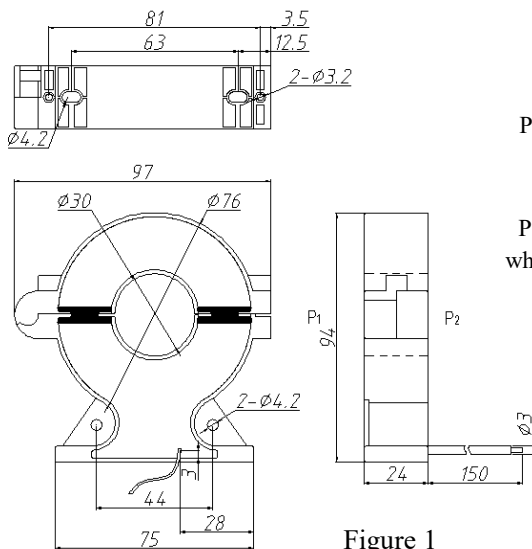


Figure 1

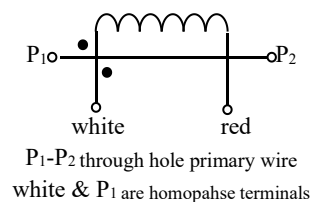


Figure 2

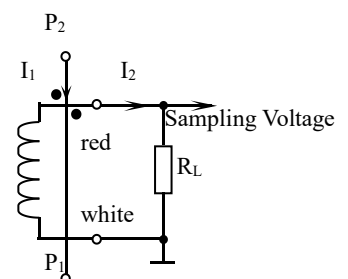


Figure 3

7. Typical Applications and Performance Parameters:

When the sampling voltage is directly obtained by the resistance method (as shown in Figure 3), the performance parameters are shown in Table 1.

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
TAK030-01	100A	0.1A	100Ω	10V	≤50'	≤0.5%	≥3 times of the rated value

8.Attention:

- ① Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TAK033 Series Split Core AC Current Transformer

1. Features:

Compact in size with high load capacity; split-core design provides easy installation and use. Widely applied in power system maintenance and electrical infrastructure upgrades.

2. Ambient Conditions:

- ① Operating temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: 860 ~ 1060 mbar (about 650 ~ 800 mmHg).

3. Operating Frequency Range: 50Hz~ 200kHz

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

12. Safety Features:

- ① Insulation resistance: $>100\text{M}\Omega$ in normal condition;
- ② Insulation withstand voltages: 1KV 50Hz/1 min;
- ③ Fire retardancy: In conformity with UL94-V0.

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

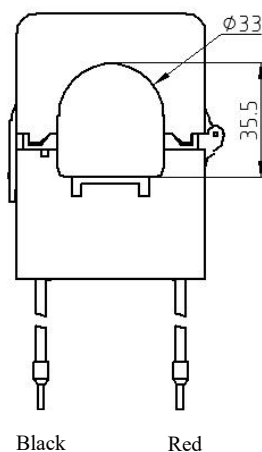
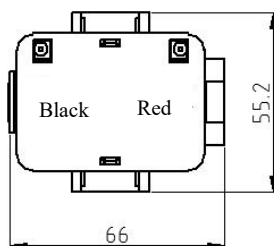


Fig 1

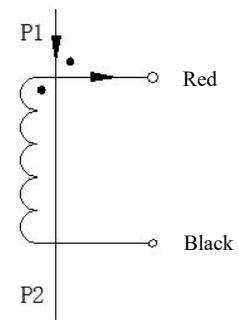
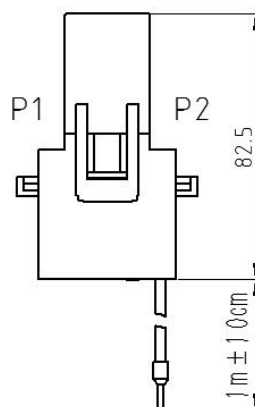


Fig 2

7. Typical Applications and Performance Parameters:

See the table below for performance parameters when applied as shown in Figure 3.

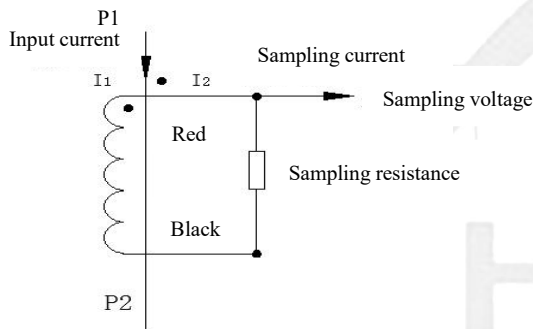


Fig 3

Model	Rated Input Current	Rated Output Current	Rated Power	Precision Grade	Turns Ratio	Withstand Voltage (kV)
TAK033-01	300A	5A	1VA	1	1	≥2
TAK033-02	400A	5A	1VA	1	1	≥2
TAK033-03	500A	5A	1.5VA	0.5	1	≥2
TAK033-04	600A	5A	1.5VA	0.5	1	≥2

10. Attention:

- ① Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TAK60 Series Split Core AC Current Transformer

LI063V2/2010

1. Features:

- ① Busbar core-through, flexible wire lead-out, panel installation;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability.

3. Ambient Conditions:

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

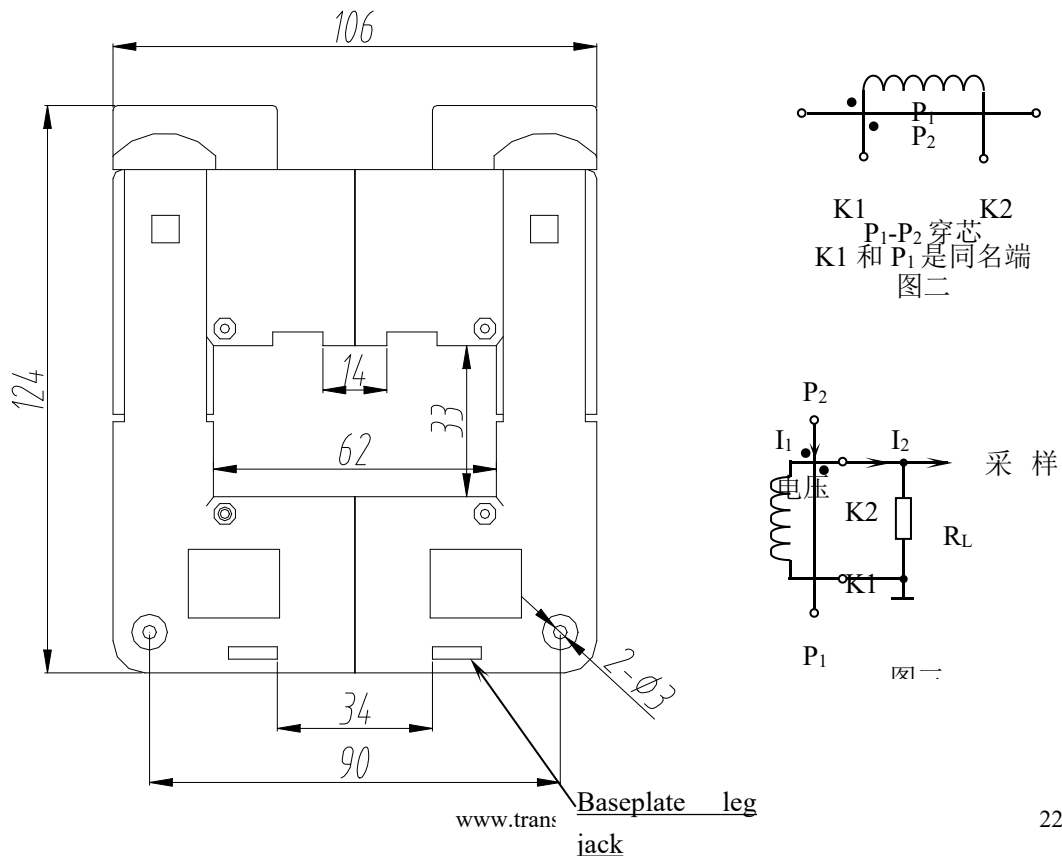
3. Operating Frequency Range : 50Hz~400Hz

4. Insulation Thermal Class: Class F (155°C)

5. Safety Features:

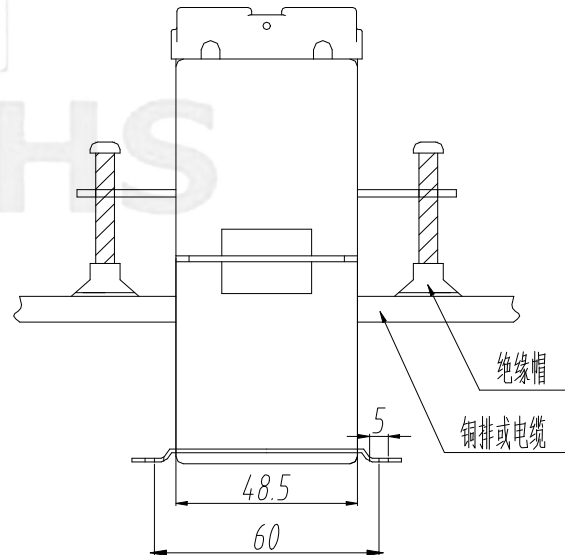
- ① Insulation resistance: $>1000\text{M}\Omega$ in normal condition ;
- ② Insulation withstand voltages: 6000V 50Hz / 1 min ;
- ③ Fire Retardant: In conformity with UL94-V0.

6. Outline diagram, installation size and coil diagram are shown in Figure below:



● Instructions; Each product is provided with two base plate feet and one bus foot and fixed bus screw, installation instructions see below;

1. When fixed on the bottom plate; Take two legs (supplied with the product) and insert them into the base plate leg jack as shown in Figure 2. The center distance of mounting holes is 60×44.7 ; The foot mounting aperture is $\Phi 5.0$; M5 screws can be used to secure the transformer to the base plate.



2. When fixed on the bus bar; Insert the pins with M5 holes (supplied with the product) into the bus pin slot as shown in the following figure. If the center distance of the M5 holes is 60, M5 screws can be used to fix the transformer to the bus.

7. Typical application and performance parameters:

When the sampling voltage is obtained directly by the resistance method (as shown in Figure 3 on the right), the performance parameters are shown in Table 1;

Model	Rated Input	Rated Output	Rated Samplin	Rated Samplin	Phase Shift	Non-linearity	Linear Range	Withstand voltage(kV)
TAK60-01	500A	5A	0.16Ω	0.8V	≤50'	≤1.0%	≥3 times of the rated value	≥6

8. Attention:

1. The current transformer primary should be connected in series in the measured current loop, and the secondary should be approximately in the short-circuit state.
2. The current transformer secondary circuit is not allowed to open, so please do not install a fuse.

TAK80 Series Split Core AC Current Transformer

LI063V2/2010

2. Features:

- ① Busbar core-through, flexible wire lead-out, panel installation;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability.

4. Ambient Conditions:

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

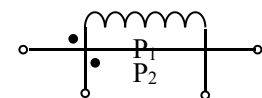
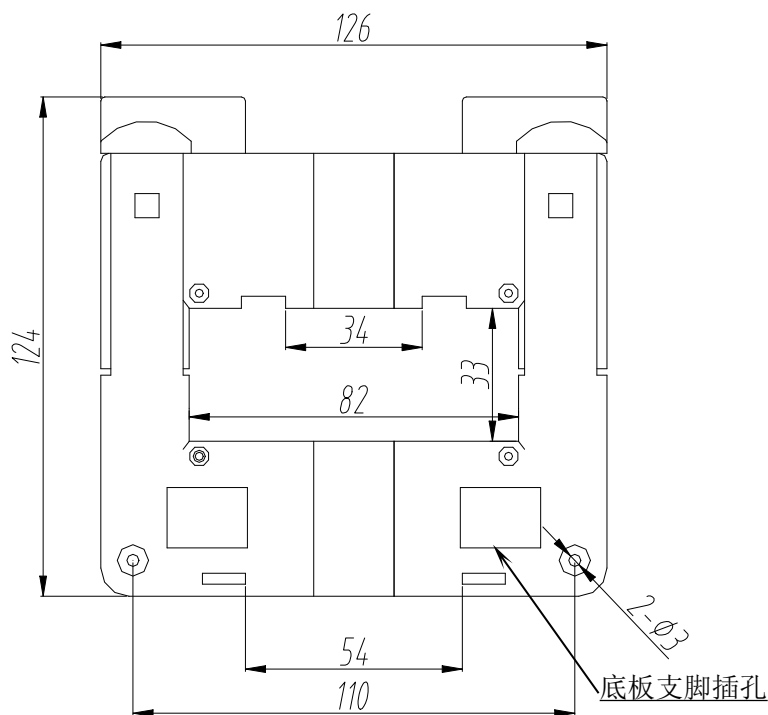
3. Operating Frequency Range : 50Hz~400Hz

4. Insulation Thermal Class: Class F (155°C)

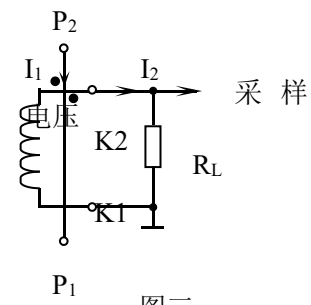
9. Safety Features:

- ① Insulation resistance: $>1000\text{M}\Omega$ in normal condition ;
- ② Insulation withstand voltages: $6000\text{V } 50\text{Hz} / 1\text{ min}$;
- ③ Fire Retardant: In conformity with UL94-V0.

10. Outline diagram, installation size and coil diagram are shown in Figure below:

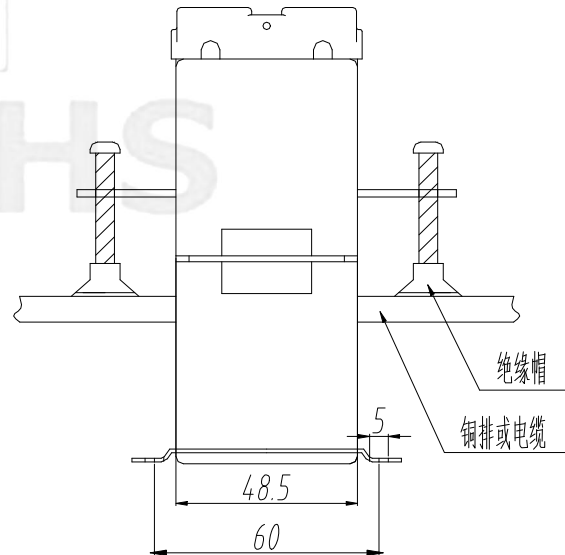


K1 K2
P1-P2 穿芯
K1 和 P1 是同名端
图二



Instructions; Each product is provided with two base plate feet and one bus foot and fixed bus screw, installation instructions see below;

2. When fixed on the bottom plate; Take two legs (supplied with the product) and insert them into the base plate leg jack as shown in Figure 2. The center distance of mounting holes is 60×44.7 ; The foot mounting aperture is $\Phi 5.0$; M5 screws can be used to secure the transformer to the base plate.



2. When fixed on the bus bar; Insert the pins with M5 holes (supplied with the product) into the bus pin slot as shown in the following figure. If the center distance of the M5 holes is 60, M5 screws can be used to fix the transformer to the bus.

11. Typical application and performance parameters:

When the sampling voltage is obtained directly by the resistance method (as shown in Figure 3 on the right), the performance parameters are shown in Table 1;

Model	Rated Input	Rated Output	Rated Samplin	Rated Samplin	Phase Shift	Non-linearity	Linear Range	Withstand voltage(kV)
TAK80-01	600A	5A	0.2Ω	1.0V	$\leq 50'$	$\leq 1.0\%$	≥ 3 times of the rated value	≥ 6

12. Attention:

- 1.The current transformer primary should be connected in series in the measured current loop, and the secondary should be approximately in the short-circuit state.
- 2.The current transformer secondary circuit is not allowed to open, so please do not install a fuse.

TAK100 Series Split Core AC Current Transformer

LI185 V1/201 7

1. Features:

- ① Busbar core-through, flexible wire lead-out, panel installation;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability.

5. Ambient Conditions:

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

3. Operating Frequency Range : 50Hz~400Hz

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

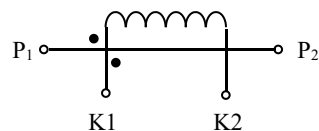


6. Safety Features:

- ① Insulation resistance: $>1000\text{M}\Omega$ in normal condition ;
- ② Insulation withstand voltages: $6000\text{V } 50\text{Hz} / 1\text{ min}$;
- ③ Fire Retardant: In conformity with UL94-V0.

6. Outline Drawing, Installation Dimension and Coil Drawing:(tolerance $\pm 1\text{mm}$)

- ① Outline drawing and installation dimensions are shown in Figure 1 :
- ② The coil diagram is shown in Figure 2:



P₁-P₂through hole primary wire
K1&P₁are homophase terminals
Fig 2

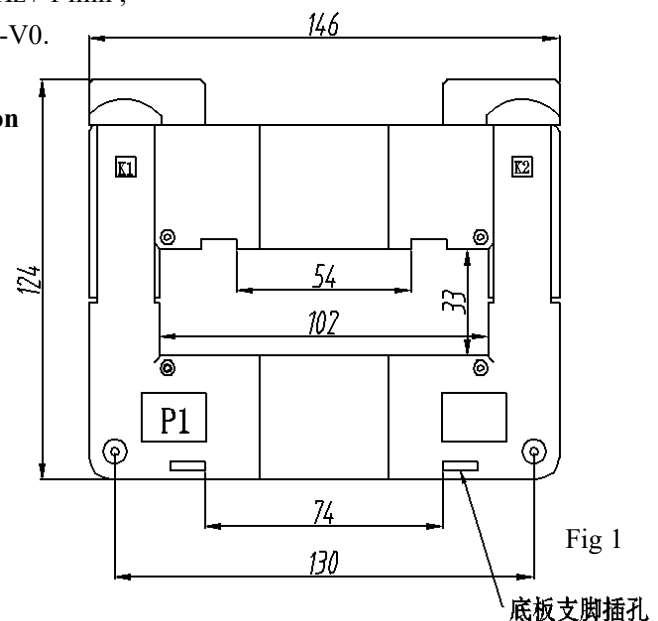


Fig 1

底板支脚插孔

- Description: Each product is supplied with two bottom plate feet, two sets of busbar feet and fixing busbar screws. See below for installation instructions.

③ Installation instructions :

• When fixing to the bottom plate :

Take the two feet (supplied with the product) and insert them into the foot sockets on the bottom plate as shown in Figure 3 . The center distance of the mounting holes is 68×84.7 ; the mounting hole diameter of the feet is $\Phi 5.0$; the transformer can be fixed on the bottom plate with M5 screws.

• When fixing on the busbar :

Insert the two feet with M5 holes (supplied with the product) into the slot of the busbar feet as shown in Figure 3. The center distance of the M5 holes is 59 , and the transformer can be fixed on the busbar with M5 screws.

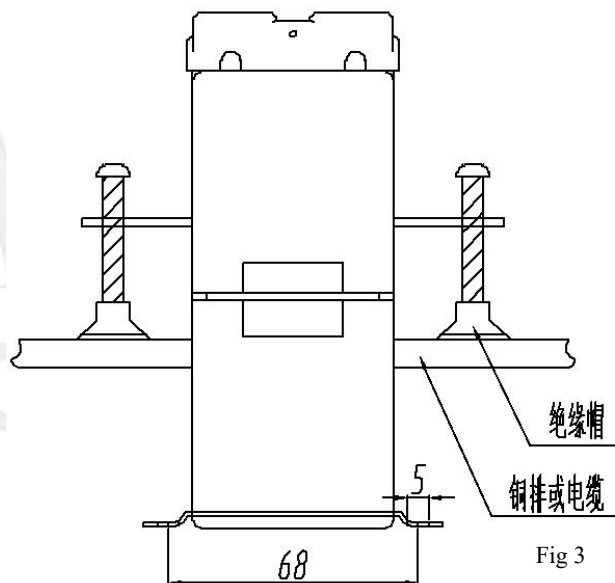


Fig 3

7. Typical Application and Performance Parameters:

When the sampling voltage is obtained directly by the resistance method (as shown in Figure 4), the performance parameters are shown in Table 1.

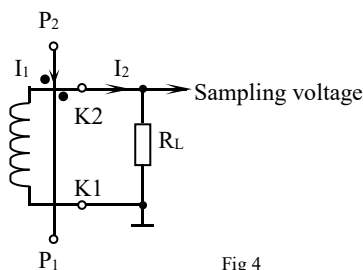


Fig 4

Table 1 :

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
TAK100-01	10 00A	5A	0.3Ω	1.5V	≤50'	≤0.5 %	≥3 times of the rated value

8.Attention:

① Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.

② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TAK120 Series Split Core AC Current Transformer

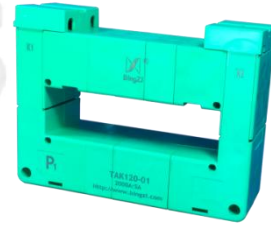
LI192V1/2017

1. Features:

- ① Busbar core-through, flexible wire lead-out, panel installation;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability.

6. Ambient Conditions:

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



3. Operating Frequency Range : 50Hz~400Hz

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

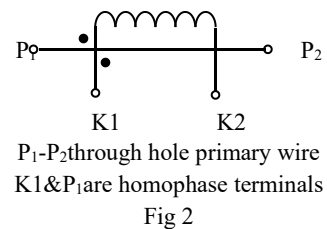
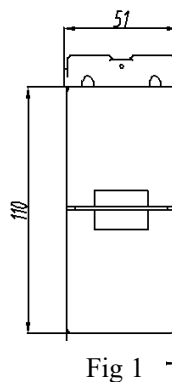
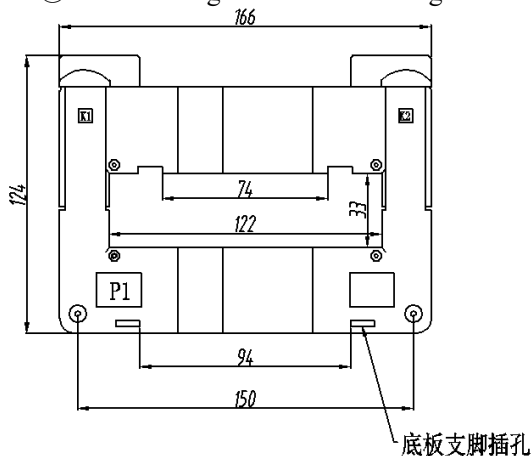
7. Safety Features:

- ① Insulation resistance: $>1000\text{M}\Omega$ in normal condition ;
- ② Insulation withstand voltages: $6000\text{V } 50\text{Hz} / 1\text{ min}$;
- ③ Fire Retardant: In conformity with UL94-V0.

6. Outline Drawing, Installation Dimension and Coil Drawing: (tolerance $\pm 1\text{mm}$)

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

② The coil diagram is shown in Figure 2:



- Description: Each product is supplied with two sets of floor feet, two sets of busbar feet and screws for fixing the busbar. See below for installation instructions.

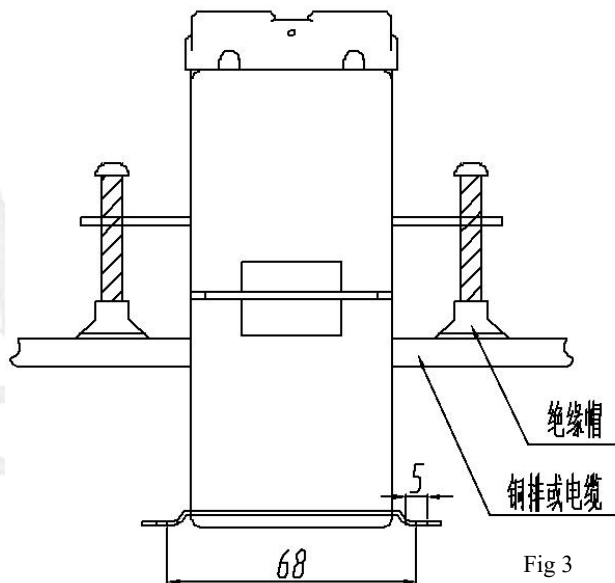
③ Installation instructions :

• When fixing to the bottom plate :

Take the two feet (supplied with the product) and insert them into the foot sockets on the bottom plate as shown in Figure 3 on the right. The center distance of the installation holes is 68×104.7 ; the diameter of the mounting holes of the feet is $\Phi 5.0$; the transformer can be fixed on the bottom plate with M5 screws.

• When fixing on the busbar :

Insert the two feet with M5 holes (supplied with the product) into the slot of the busbar feet as shown in Figure 3. The center distance of the M5 holes is 59 , and the transformer can be fixed on the busbar with M5 screws.



P₂

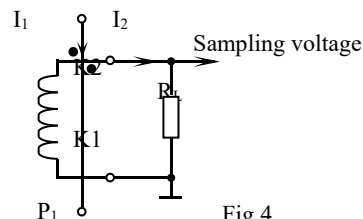


Fig 4

7. Typical application and performance parameters:

When the sampling voltage is obtained directly by the resistance method (as shown in Figure 4), the performance parameters are shown in Table 1.

Table 1 :

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
TAK120-01	2000A	5A	10Ω	50V	≤50'	≤ 1.0 %	≥2 times of the rated value

8.Attention:

- ① Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TAK3020 Series Split Core AC Current Transformer

1. Features:

- ① Vertical grommet, flexible installation method, can be fixed on the busbar or on the bottom plate;
- ② Can be equipped with various types of busbars, such as flat row, round busbar or cable;
- ③ The output terminals are screw-fastened and crimped standard terminals, which are convenient for wiring at the project site;
- ④ Opening and closing structure, closed plastic shell, beautiful appearance.

2. Ambient Conditions:

- ① Ambient temperature: $-5.5\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at $40\text{ }^{\circ}\text{C}$;
- ③ Atmospheric pressure: $860\sim 1060\text{mbar}$ (about $650\sim 800\text{mmHg}$).

3. Operating Frequency Range : 50Hz~400Hz

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

14. 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:

- ① The outline drawing and installation dimension are shown in Figure 1

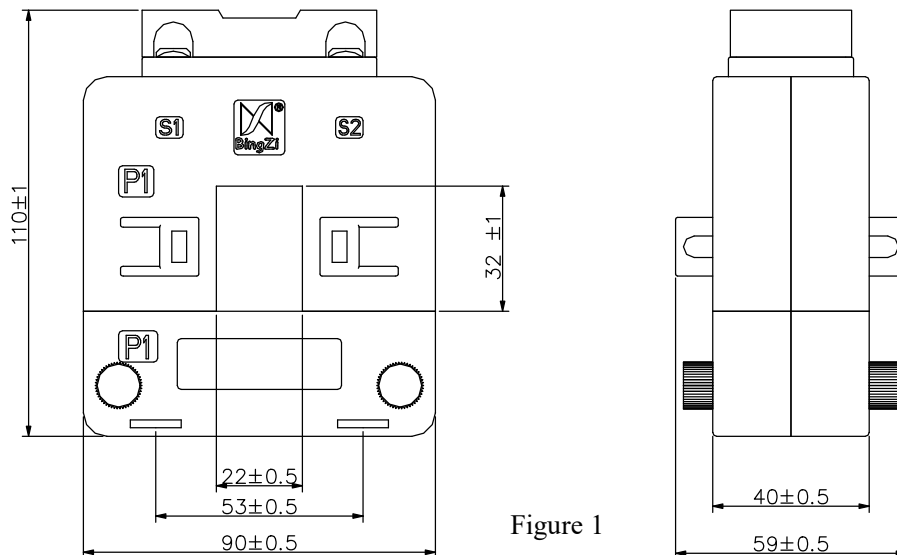


Figure 1



②The coil diagram is shown in Figure 2 on the right

- Description: Each product is supplied with four fixing busbar screws, four nuts, four insulating caps, and four base plate feet. See the installation instructions below.

③Installation instructions are shown in Figure 3

- Bottom plate fixing: Take four feet (supplied with the product) and insert them into the bottom plate support holes as shown in the figure. The center distance of the mounting holes is 53×63 ; the mounting hole diameter of the feet is $\Phi 6.0$; M5 screws can be used to fix the transformer on the bottom plate.

- Busbar fixing: Put the M5 nut (supplied with the product) into the groove as shown in the figure below, and fix the transformer on the busbar with M5 screw .

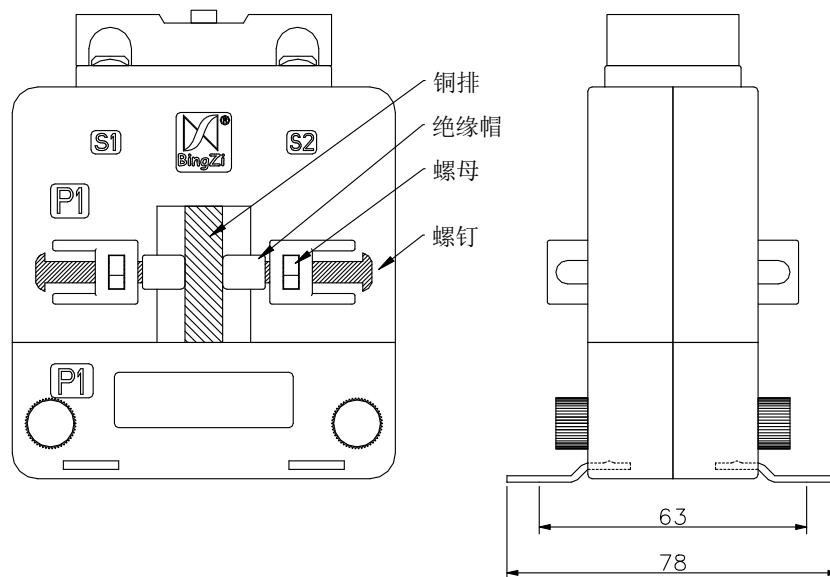
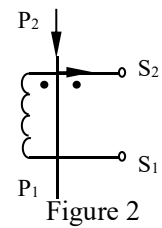


Figure 3

7. Typical Applications and Performance Parameters:

When applied as shown in Figure 4, the performance parameters are shown in Table 1:

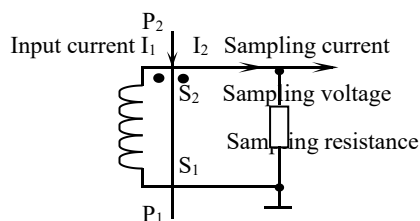


Figure 4

Table 1:

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Nonlinearity	Linear Range
TAK3020-01	100A	5A	0.1Ω	0.5V	≤ 200'	≤ 1.5 %	1.2 times of the rated value
TAK3020-02	150A	5A	0.1Ω	0.5V	≤ 200'	≤ 1.5 %	
TAK3020-03	200A	5A	0.1Ω	0.5V	≤ 200'	≤ 1.5 %	
TAK3020-04	250A	5A	0.1Ω	0.5V	≤ 200'	≤ 1.5 %	
TAK3020-05	300A	5A	0.1Ω	0.5V	≤ 60'	≤ 1.0 %	
TAK3020-06	400A	5A	0.1Ω	0.5V	≤ 50'	≤ 0.5 %	

● Notes:

a . In practical applications, the sampling resistor should be less than or equal to the Rated value given in the table above, which will improve nonlinearity and phase shift.

b . 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 Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.

② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TAK8050 Series Split Core AC Current Transformer

1. Features

- ① Vertical grommet, flexible installation;
- ② Can be equipped with various types of busbars, such as flat row, round busbar or cable;
- ③ The output terminals are screw-fastened and crimped standard terminals, which are convenient for wiring at the project site;
- ④ Opening and closing structure, closed plastic shell, beautiful appearance.

2. Ambient Conditions:

- ① Operating temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: $860 \sim 1060$ mbar (about $650 \sim 800$ mmHg).

3. Operating Frequency Range: 50Hz~ 200kHz

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

15. Safety Features:

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

6. Outline Drawing, Installation Dimension and Coil Diagram :

- ① The outline drawing and installation dimension are shown in Figure 1

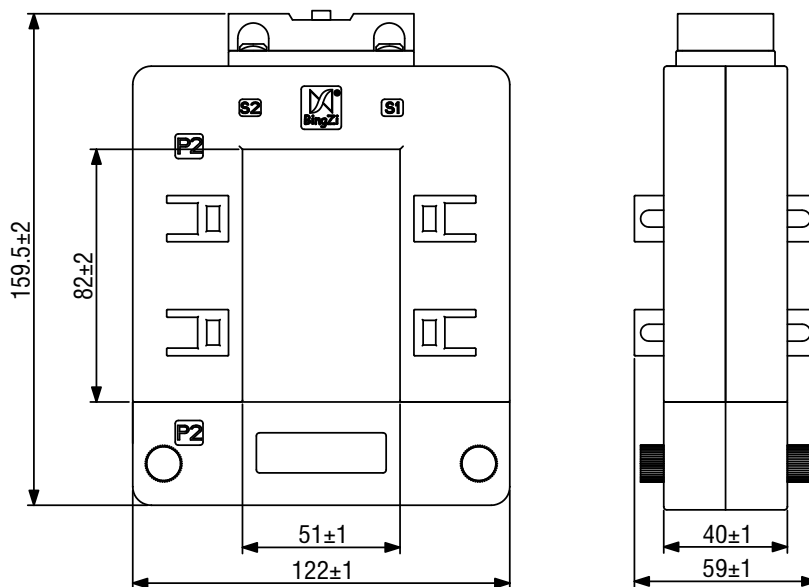


Fig 1



② The coil diagram is shown in Figure 2 on the right

- Description: Each product is supplied with eight fixing busbar screws, eight nuts, and eight insulating caps. See the installation instructions below.

③ Installation instructions are shown in Figure 3

- Busbar fixing: Put the M5 nut (supplied with the product) into the groove as shown in the figure below, and fix the transformer on the busbar with M5 screw .

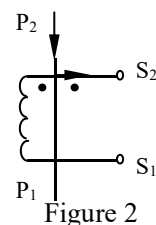


Figure 2

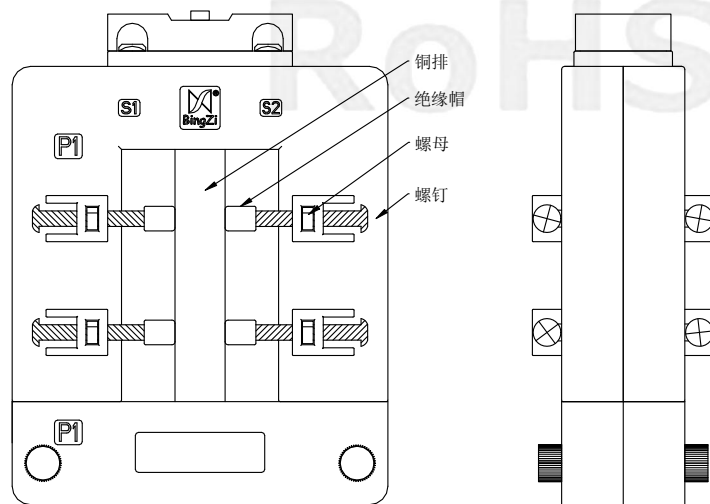


Figure 3

7. Typical Applications and Performance Parameters:

When applied as shown in Figure 4, the performance parameters are shown in Table 1:

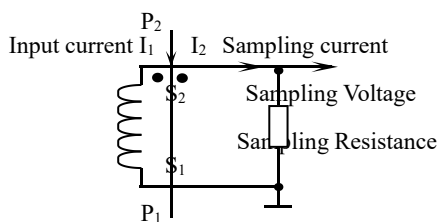


Fig 4

Table 1:

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
TAK8050-01	250A	5A	0.1Ω	0.5V	≤ 60'	≤ 1.0 %	1.2 times of the rated value
TAK8050-02	300A	5A	0.1Ω	0.5V	≤ 60'	≤ 1.0 %	
TAK8050-03	400A	5A	0.1Ω	0.5V	≤ 60'	≤ 1.0 %	
TAK8050-04	500A	5A	0.1Ω	0.5V	≤ 30'	≤ 0.5 %	
TAK8050-05	600A	5A	0.1Ω	0.5V	≤ 30'	≤ 0.5 %	
TAK8050-06	750A	5A	0.1Ω	0.5V	≤ 30'	≤ 0.5 %	
TAK8050-07	800A	5A	0.2Ω	1V	≤ 30'	≤ 0.5 %	
TAK8050-08	1000A	5A	0.4Ω	2V	≤ 30'	≤ 0.5 %	

• Notes:

- a. In practical applications, the sampling resistor should be less than or equal to the Rated value given in the table above, which will improve non-linearity and phase shift.
- b. 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 Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.

TA K10050 Split Core AC Current Transformer

1. Features

- ① Vertical grommet, flexible installation;
- ② Can be equipped with various types of busbars, such as flat row, round busbar or cable;
- ③ The output terminals are screw-fastened and crimped standard terminals, which are convenient for wiring at the project site;
- ④ Opening and closing structure, closed plastic shell, beautiful appearance.

2. Ambient Conditions:

- ① Operating temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: $860 \sim 1060$ mbar
(about $650 \sim 800$ mmHg).

3. Operating Frequency Range: 50Hz~ 200kHz

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

16. Safety Features:

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

6. Outline Drawing, Installation Dimension and Coil Diagram:

- ① The outline drawing and installation dimension are shown in Figure 1

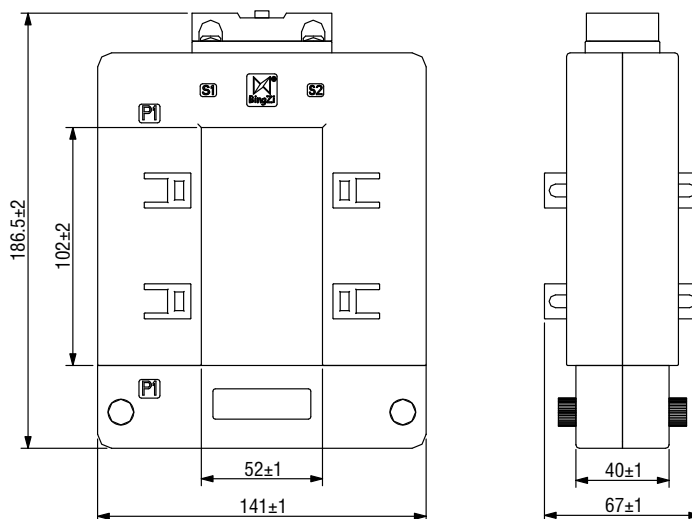


Figure 1

② The coil diagram is shown in Figure 2 on the right

- Description: Each product is supplied with eight fixing busbar screws, eight nuts, and eight insulating caps. See the installation instructions below.

③ Installation instructions are shown in Figure 3

- Busbar fixing: Put the M5 nut (supplied with the product) into the groove as shown in the figure below, and fix the transformer on the busbar with M5 screw .

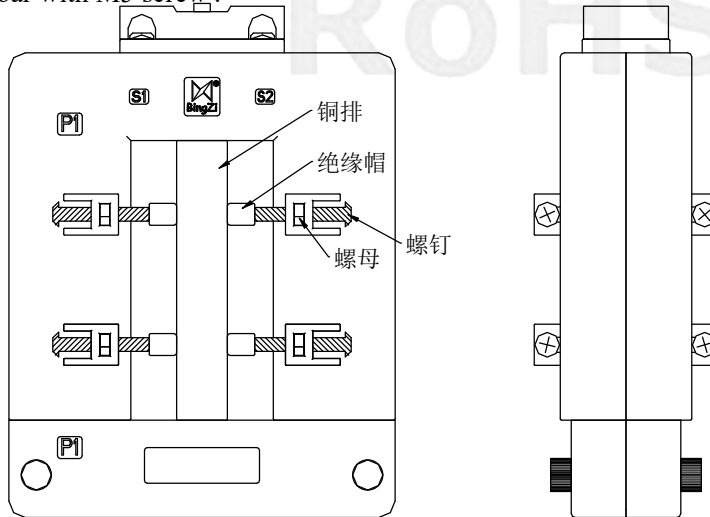
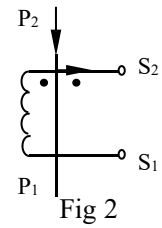


Figure 3

7. Typical Applications and Performance Parameters:

When applied as shown in Figure 4, the performance parameters are shown in Table 1:

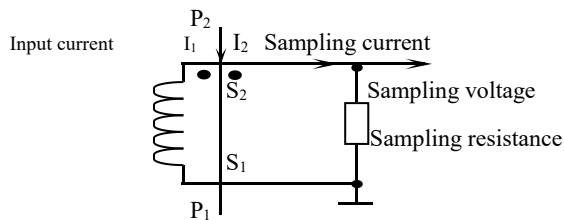


Table 1:

Fig4

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistanc	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
TAK10050-01	500A	5A	0.1Ω	0.5V	≤ 30'	≤ 0.5 %	1. 2 times of the rated value
TAK10050-02	600A	5A	0.2Ω	1V	≤ 30'	≤ 0.5 %	
TAK10050-03	750A	5A	0.2Ω	1V	≤ 30'	≤ 0.5 %	
TAK10050-04	800A	5A	0.2Ω	1.0V	≤ 30'	≤ 0.5 %	
TAK10050-05	1000A	5A	0.4Ω	2V	≤ 30'	≤ 0.5 %	
TAK10050-06	1200A	5A	0.6Ω	3V	≤ 30'	≤ 0.5 %	
TAK10050-07	1250A	5A	0.6Ω	3V	≤ 30'	≤ 0.5 %	
TAK10050-08	1500A	5A	1Ω	5.0V	≤ 30'	≤ 0.5 %	

• Notes:

- a. In practical applications, the sampling resistor should be less than or equal to the Rated value given in the table above, which will improve non-linearity and phase shift.
- b. 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 Connect the primary winding of the current transformer in series with the loop of the measured current. Operate the secondary winding in a near short-circuit mode.
- ② Do not allow the secondary circuit of the current transformer to be open-circuited. Do not connect any fuse in the secondary loop.