

TA3241 Series Residual Current Transformer

LI179V1/2016

1. Features:

- ① It can measure the leakage current in the system whose main circuit current is below 40A ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable;
- ③ Soft line output, easy to use and flexible.

2. Ambient Conditions:

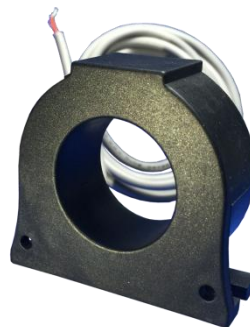
- ① Ambient temperature: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$;
- ② Relative humidity: $\leq 90\%$ at 40°C ;
- ③ Atmospheric pressure: $860 \sim 1060\text{mbar}$ (about $650 \sim 800\text{mmHg}$).

3. Operating Frequency Range: 20Hz~1kHz

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

5. Safety Features:

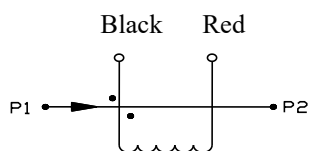
- ① Insulation resistance: $>1000\text{M}\Omega$ in normal condition;
- ② Insulation withstand voltages: $6\text{KV } 50\text{Hz}/1\text{min}$;
- ③ Fire retardancy: In conformity with UL94-V0.



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 :



P_1, P_2 through hole primary wire
 P_1 & Black are homophase terminals

Fig 2

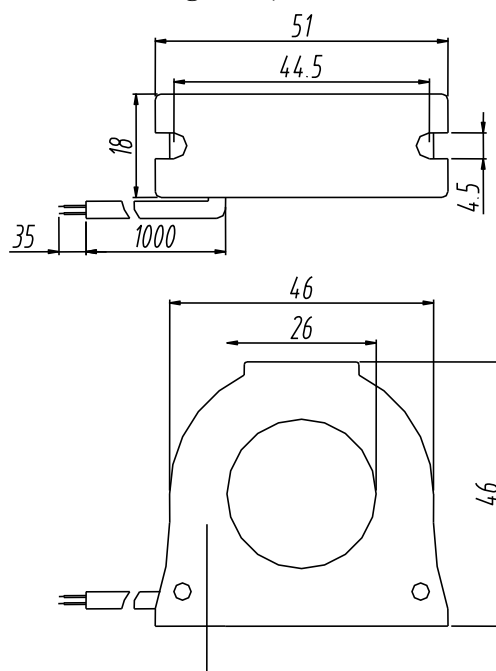


Fig 1

7. Typical application and performance parameters:

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

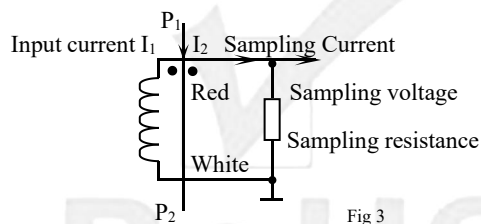


Fig 3

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range
TA3241-01M	1A	0.5mA	400Ω	0.2V	≤30'	≤0.25%	2 times

Note: This series of transformers is used for motor protection, soft start, and large current monitoring

• 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 non-linearity 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:

- Connect the primary of the current transformer in series with the measured current circuit, and operate the secondary in near short circuit mode.
- Do not allow the secondary of the current transformer to be open circuited and do not install any fuse.

TAR15626 Series Zero Sequence Current Transformer

LI129V1/2013

1. Features:

- ① It can measure the zero-sequence current in the system whose main circuit current is below 400 A ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable;
- ③ Soft line output, easy to use and flexible.

2. 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: $860 \sim 1060\text{mbar}$
(about $650 \sim 800\text{mmHg}$).

3. Operating Frequency Range: 20Hz~1kHz

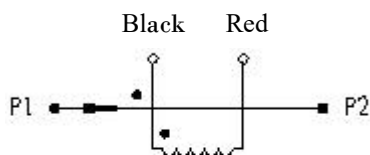
4. Insulation Thermal Class: Class B (130°C)

5. Safety Features:

- ① Insulation resistance: $>1000\text{M}\Omega$ in normal condition;
- ② Insulation withstand voltages: $6000\text{VHz}/1$ minute;
- ③ Fire retardancy: In conformity with UL94-V0.

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

See Figure 2 for the coil diagram



P₁, P₂ through hole primary wire
P₁ & Black are homophase terminals

Fig 2

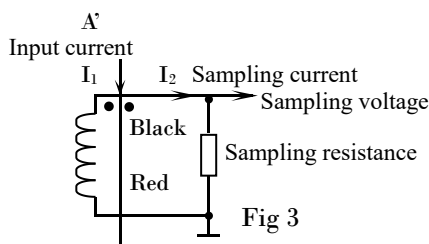


Fig 3

7. Typical Application and Performance Parameters:

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

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Phase Shift	Non-linearity	Linear Range	Unbalanced Current	Withstand Voltage (kV)
TA R15626-01	10A	5 mA	360Ω	1.8V	$\leq 60'$	$\leq 0.5\%$	≥ 2 times of the rated value	$\leq 0.5\text{mA}$	≥ 6

• Notes:

- a . In practical applications, the sampling resistor should be less than or equal to the rated value given in the above table, which will improve the 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 The primary of the current transformer should be connected in series with the circuit being measured, and the secondary should work close to a short circuit condition.
- ② The secondary circuit of the current transformer should not be open-circuited. Therefore, please do not install fuses.

TAR21642 Series Residual Current Transformer

LI1 81 V1/2016

1. Features:

- ① It can measure the zero-sequence current in the system whose main circuit current is below 630A ;
- ② Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable;
- ③ Soft line output, easy to use and flexible .

2. 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: 20Hz~1kHz

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

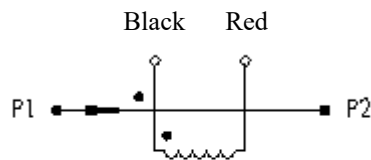
5. Safety Features:

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

6. Outline Drawing, Installation Dimension and Coil Diagram: (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, P₂ through hole primary wire
P₁ & Black are homophase terminals

Fig 2

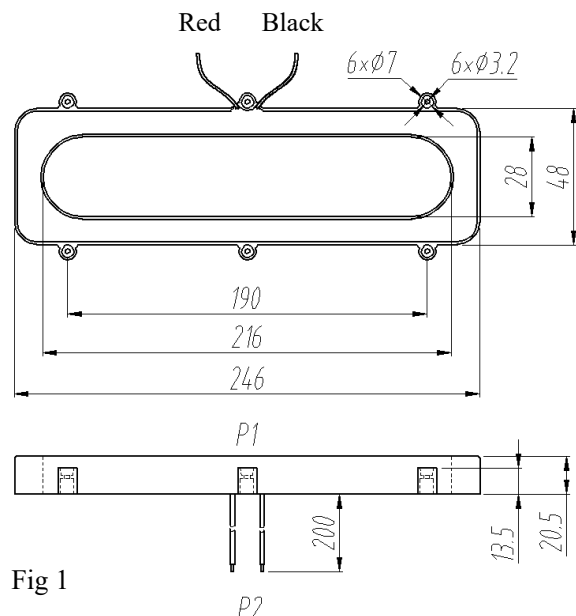
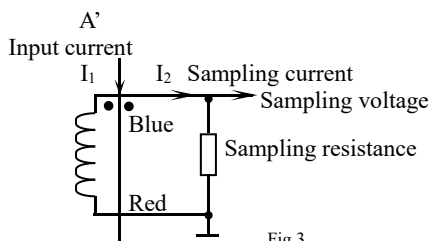


Fig 1

7. Typical Application and 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	Unbalanced Electric Current
TAR21642-01	10A	5mA	360Ω	1.8V	≤60'	≤0.5%	≥2 times	≤0.5mA

• 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 non-linearity 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:

- Connect the primary of the current transformer in series with the measured current circuit, and operate the secondary in near short circuit mode.
- Do not allow the secondary of the current transformer to be open circuited and do not install any fuse.