

Introduction to integrators

The combination of the rogowski coil and integrator can achieve 90° phase shift compensation and frequency equalization, so that the output of rogowski coil is in the same phase as the primary current and is frequency independent, which is suitable for more application scenarios. TRA series integrator with rogowski coil is an alternative to current transformer (CT), it is light weight, flexible and easy to install. Can be like CT secondary output industry standard 0-30mA, 0-50mA, 0-1A, 0-5A instantaneous current, proportional to the measured primary current. The TRA series can be used with power, current and power quality meters and is an ideal replacement for CT in retrofit use.

Product picture printing is for reference only, subject to the actual product



Features

- Accuracy 1%
- Low zero drift
- Standard 35mm din-rail
- High bandwidth measurement 30 to 5kHz
- Can be combined with RFSY rogowski coil of any size
- Can be combined with RFSZ rogowski coil of any size

Application

- Measuring instruments, laboratory instruments
- Power monitoring system
- DC ripple measurement
- Harmonics and transient monitoring
- Dynamometer
- Power analyzer sensor

Electrical parameters: (The following parameters are typical values and actual values will be subject to product testing)

Model	TRA06-05AC-1
Rated input	100A~6KA
Rated output	0~5A
Maximum output	6A
Accuracy	1% (Typical value 5%~120% Rated current 25°C)
Frequency range	30Hz~5KHz
Linearity	±1%
Response time	≤20mS
Load resistance	0.1 Ω
Phase shift	≤1°
Ripple coefficient	5%
Power supply	±12V
Mounting type	Plate-type
Working temperature	-20°C~+60°C
Storage temperature	-40°C~+60°C
Waterproof grade	IP20

Terminal definition

- 1: Signal V_s- (Black line)
- 2: Signal V_s+ (Red line)
- 3: Shield
- 4: N. C
- 5: V-
- 6: GND
- 7: V+

Dimensions (in:mm±2)

