

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. TRV series integrators are instantaneous voltages that output proportional to primary current and are usually used with power analyzers, oscilloscopes, ammeters, data loggers, data acquisition cards and other devices.

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

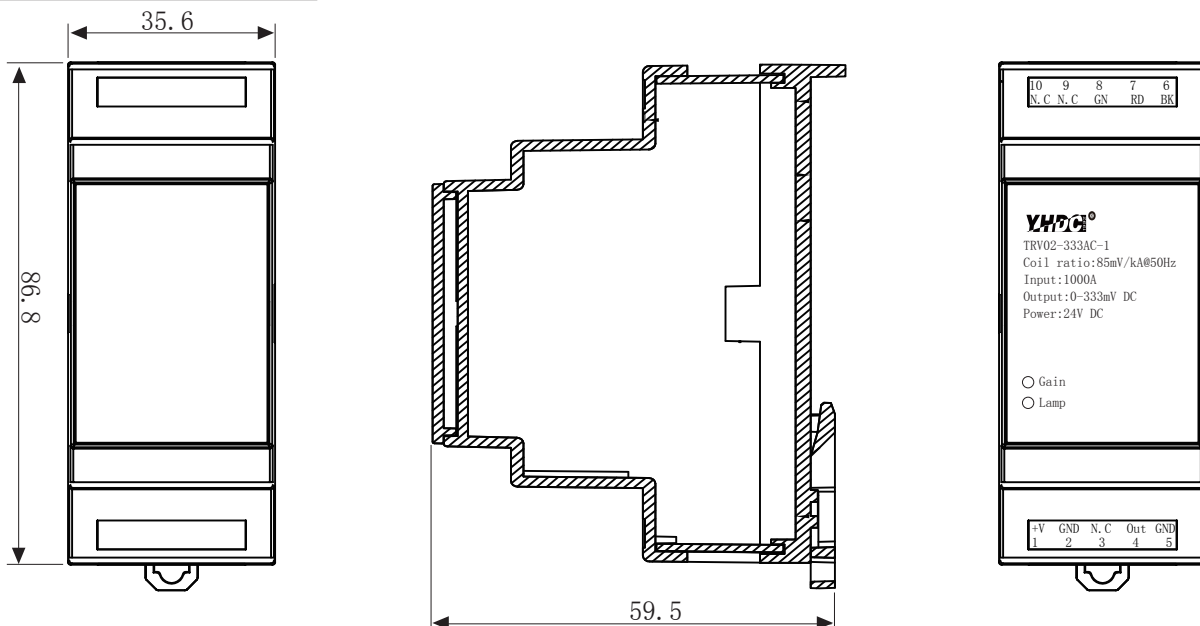
Product picture printing is for reference only, subject to the actual product



Terminal definition

- 1: +V
- 2: GND
- 3: N. C (Null terminal)
- 4: Output
- 5: GND
- 6: Signal Vs- (Black line)
- 7: Signal Vs+ (Red line)
- 8: Shield

Dimensions (in:mm±0.5)



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

Model	TRV02-333AC-1	TRV02-001AC-1	TRV02-005AC-1
Rated input	100~10000A		
Rated output	0.333V AC	1V AC	5V AC
Maximum output	5V AC	5V AC	5V AC
Accuracy	1% (typical value 5%~120% of rated current at 25°C)		
Frequency range	10Hz~10KHz		
Linearity	±0.2%		
Response time	≤1uS		
Ripple coefficient	1%		
Power supply	24V DC		
Mounting type	Din-rail		
Working temperature	-20°C~+60°C		
Storage temperature	-40°C~+60°C		
Waterproof grade	IP20		