TRV03

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 p ower analyzers, oscilloscopes, ammeters, data loggers, data acquisition cards and other devices.

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

Characteristic

Accuracy 1%
Low-zero drift
Low power consumption
Small size
Can be combined with RFSY Roche coils of any size
Can be combined with RFSZ Roche coils 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	TRV03-333AC-3	TRV03-001AC-3	TRV03-033AC-3
Rated input	100~6KA		
Rated output	0.333V AC	1V AC	3.3V AC
Maximum output	3.3V AC	3.3V AC	3.3V AC
Accuracy	1%(Typical value 5%~120% of rated current at 25℃)		
Frequency range	10Hz~10KHz		
Linearity	±0.2%		
Phase shift	≤0.5°		
Response time	≤1uS		
Ripple coefficient	1%		
Supply voltage	12V DC		
Installation type	suspended		
Working temperature	-20℃~+60℃		
Storage temperature	-40℃~+60℃		
Wateerproof grade	IP20		

Terminal definition

1：Power+	9：Input C+
2：Power-	10：Input C-
3：OutputA+	11：N.C
4：OutputA-	12：InputB+
5：OutputB+	13：InputB-
6：OutputB-	14：N.C
7：OutputC+	15：InputA+
8：OutputC-	16：InputA-

Dimensions (in:mm±0.5)