





TBV05/10ASR3.3 series current mode voltage sensor is a closed loop device based on the principle of the hall effect—and null balance method. The output from the voltage sensor can be expressed as a voltage by passing it through a resister. Input voltage can be expressed as a current by passing it through an input resister. It provides accurate—electronic measurement of DC AC or pulse and to take all kinds of irregular voltage waveform.

Electrical data (Ta=25°C±5°C)

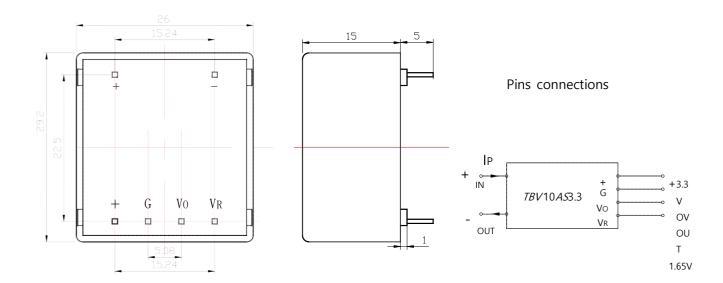
Type Parameter	TBV05ASR3.3	TBV10ASR3.3	Unit
Rated input (Ipn)	±5.0	±10	mA
Measure range (lp)	±10	±20	mA
Turns ratio (Np/Ns)	500:800	250:800	Т
Measure resister of inside	200±0.1% 25PPM/℃	200±0.1% 25PPM/℃	Ω
Rated output voltage	@Ip=±Ipn ±0.625±0.5%		V
Supply voltage	+3.3±5%		V
Consumption current	20+lpX (Np/Ns)		mA
Reference voltage	1.65±0.5%		V
Zero voltage	@ lp=0 1.65±0.5%		V
Offset drift	≤±0.2		mV/°C
Linearity	@ lp=0-±lpn ≤0.1		%FS
Response time	≤40		μS
Galvanic isolation	@ 50HZ, AC,1min 2.	KV	



Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

Mechanical dimension (for reference only)



Remarks:

- 1. All dimensions are in mm.
- 2. General tolerance ±1mm

Directions for use

- 1. When the current will be measured goes through a sensor, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the sensor).
- 2. Custom design in the different rated input current and the output voltage available.

Standards

- UL94-V0
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000



General data

	Value	Unit	Symbol
Operating temperature	-40 to +85	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(about)	21	g	М

Characteristics chart

Effects of impulse noise

