



TBV-AS12 series current mode voltage sensor is a device based on the principle of the hall effect, with a galvanic isolation between primary and secondary circuit, it provides accurate electronic measurement of DC、AC or pulsed voltage.

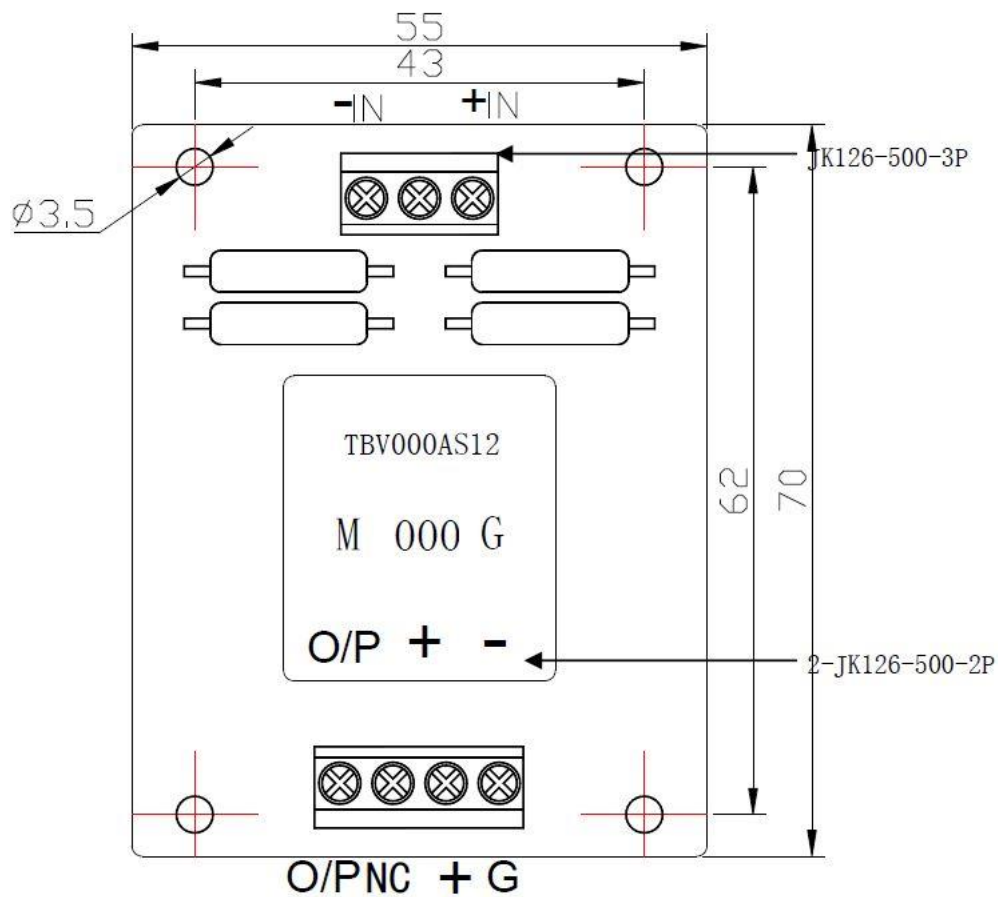
Electrical data (Ta=25°C±5°C)

Type Parameter	TBV50 AS12	TBV100 AS12	TBV200 AS12	TBV300 AS12	TBV400 AS12	TBV500 AS12	Unit
Rated input (Vpn)	±50	±100	±200	±300	±400	±500	V
Measure range (Vp)	±100	±200	±400	±600	±800	±1000	V
Turns ratio (Np/Ns)	3333:1000						T
Rated input (Ipn)	±3.0						mA
Rated output	@Vp=±Vpn ±2±0.5%						V
Supply voltage	12±5%						V
Consumption current	20+I _p X (Np/Ns)						mA
Zero voltage	5±0.5%						V
Offset voltage drift	≤±0.5						mV/°C
Linearity	@Vp=0-±Vpn ≤0.2						%FS
Response time	≤40						μS
Band-width	20 ~ 10000						HZ
Galvanic isolation	@ 50HZ, AC,1min 2.5						KV

Applications

- AC variable speed drives
- Static converters for DC motor drives
- Variable speed drives
- Power supplies for welding applications
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)

Mechanical dimension (for reference only)



Remarks :

1. All dimensions are in mm.
2. General tolerance $\pm 1\text{mm}$

Directions for use

1. When the current is measured through a transmitter, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the transmitter).
2. Customs can adjust Output amplitude of the transmitter by needs.
3. 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(approx)	43	g	M