



TBV-AS24 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.

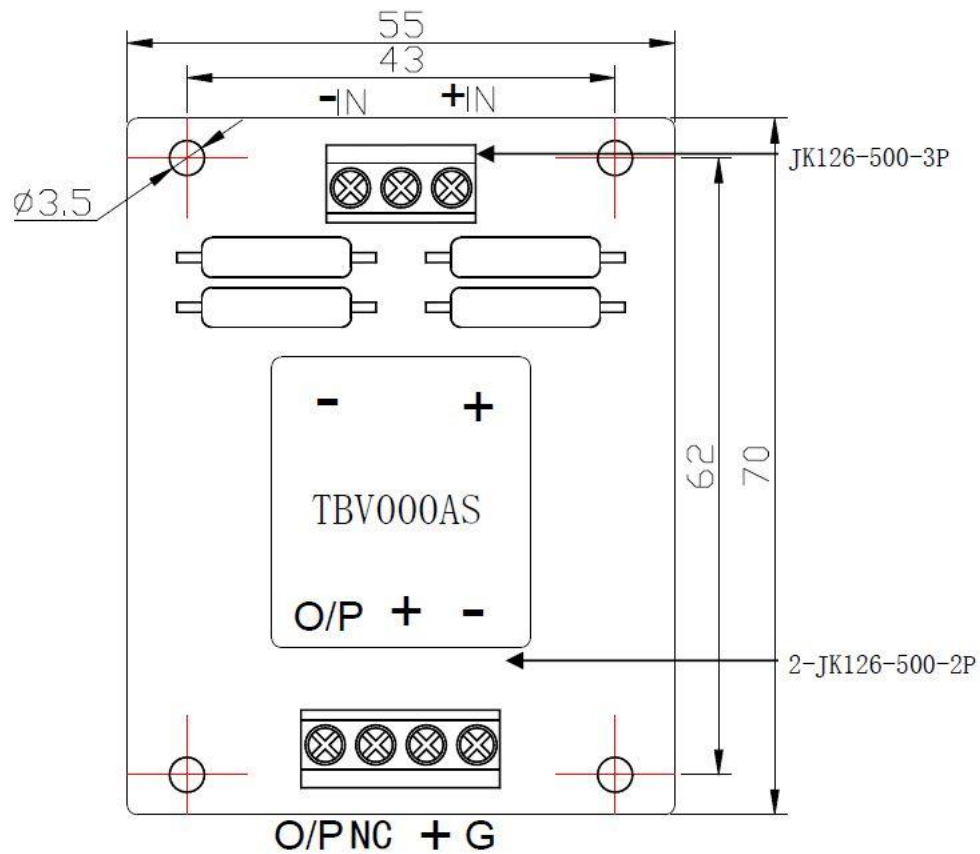
Electrical data (Ta=25°C±5°C)

Type	TBV50 AS24	TBV100 AS24	TBV200 AS24	TBV300 AS24	TBV400 AS24	TBV500 AS24	Unit
Parameter							
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	24±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	0 ~ 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