TBV-ASR24 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.

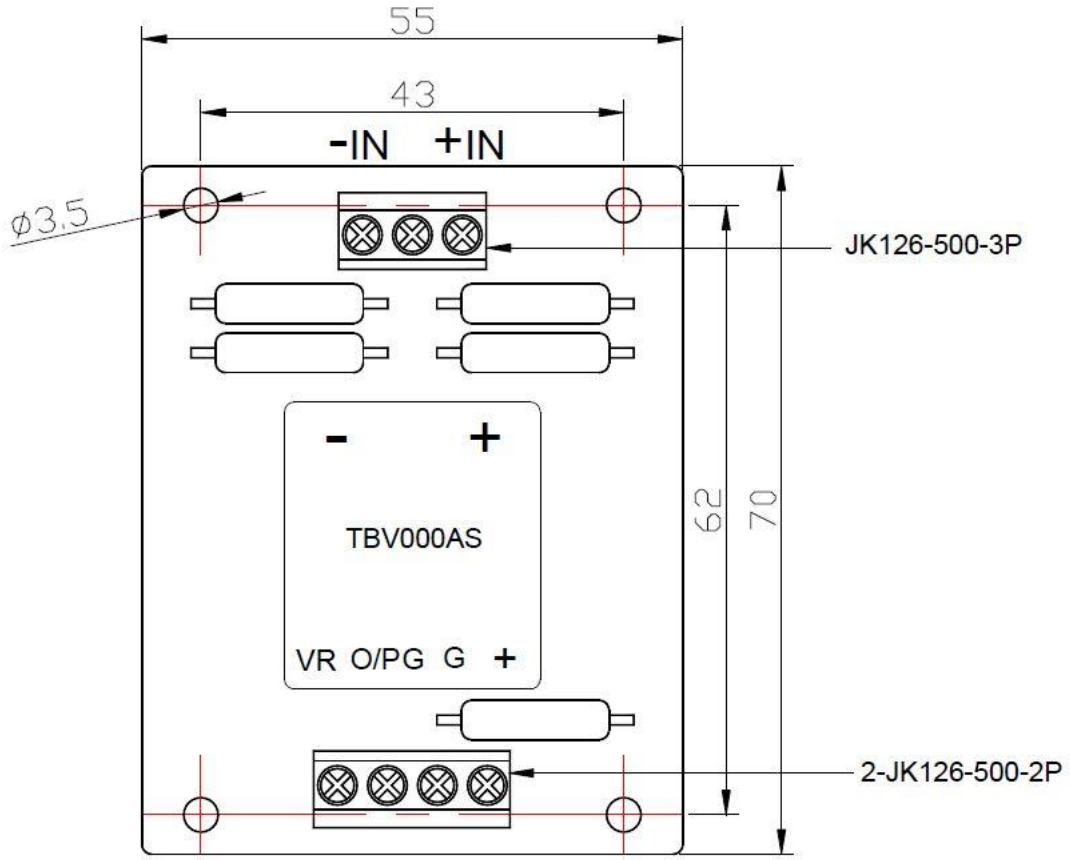
Electrical data (Ta=25℃±5℃)

Type / Parameter	TBV50 ASR24	TBV100 ASR24	TBV200 ASR24	TBV300 ASR24	TBV400 ASR24	TBV500 ASR24	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	24±5%						V
Consumption current	20+IpX (Np/Ns)						mA
Reference voltage	5±0.5%						V
Zero voltage	5±0.5%						V
Offset voltage drift	≤±0.5						mV/℃
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 ±1mm

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	ºC	TA
Storage temperature	-40 to +125	ºC	TS
Mass(approx)	43	g	M