



TBV-AV series hall effect voltage sensor is the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of DC, AC or pulsed currents.

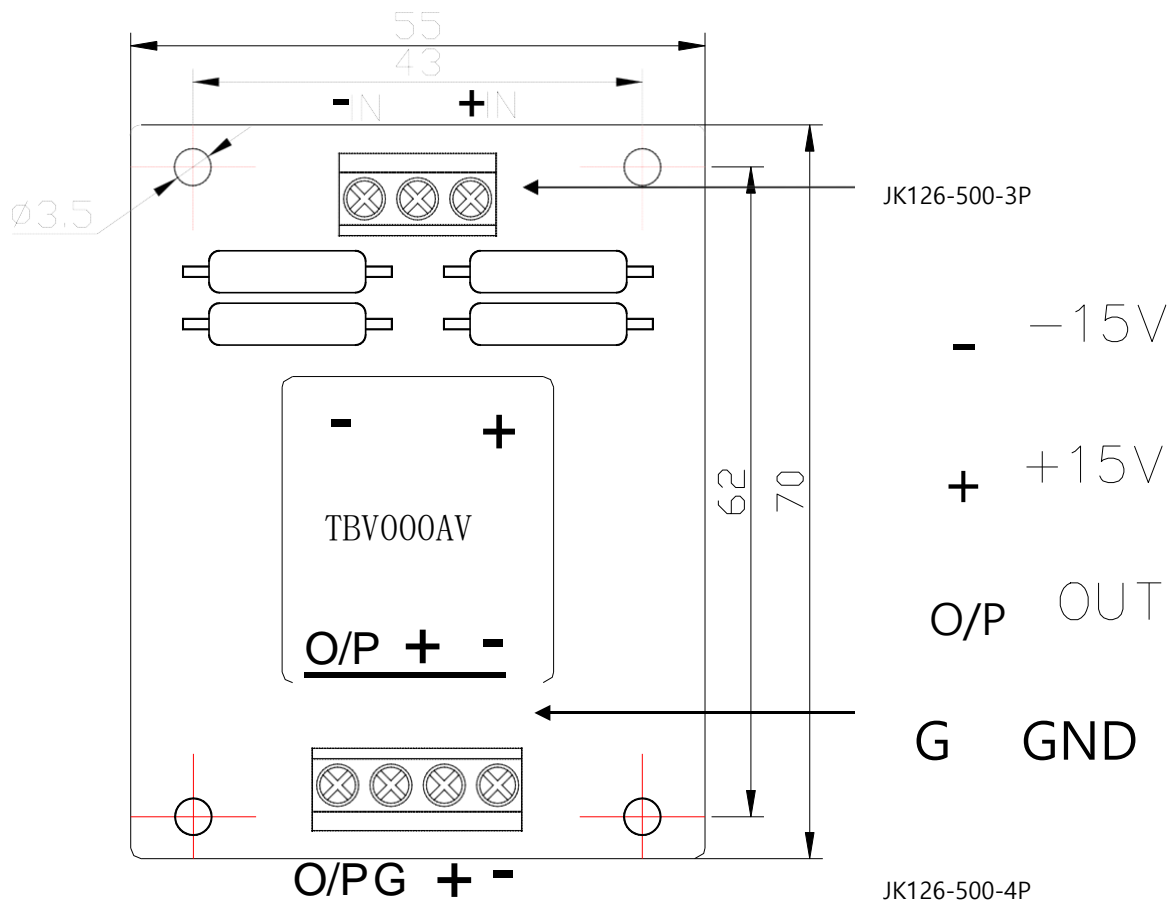
Electrical data(Ta=25°C±5°C)

Parameter \ Type	TBV50AV	TBV100AV	TBV200AV	TBV300AV	TBV400AV	TBV500AV	TBV800AV	TBV1000AV	Unit
Rated input (V _{pn})	±50	±100	±200	±300	±400	±500	±800	±1000	V
Measure range (V _p)	±100	±200	±400	±600	±800	±1000	±1600	±2000	V
Turns ratio (N _p /N _s)	5000:1000								T
Rated input (I _{pn})	±5.0								mA
Rated output	@V _p =±V _{pn}		±5±0.5%						V
Supply voltage	±15±5%								V
Consumption current	20+I _p X(N _p /N _s)								mA
Offset voltage	@V _p =0	±25							mV
Offset drift	≤±0.5 (Typ) , ≤±0.75 (Max) ,								mV/°C
Linearity	@I _p =0-±I _{pn}	≤0.1						%FS	
Response time	≤50								μS
Bandwidth(-3dB)	@-3dB	DC-200						KHZ	
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 voltage 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 sensor).
2. Customs can adjust the output amplitude of the sensor by needs.
3. Custom design in the different rated input voltage and the output voltage are 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

Characteristics chart

Effects of impulse noise

