TBV-ADA1220 Series Hall Effect Voltage Transmitter

TBV-ADA1220 series hall effect voltage transmitter 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.

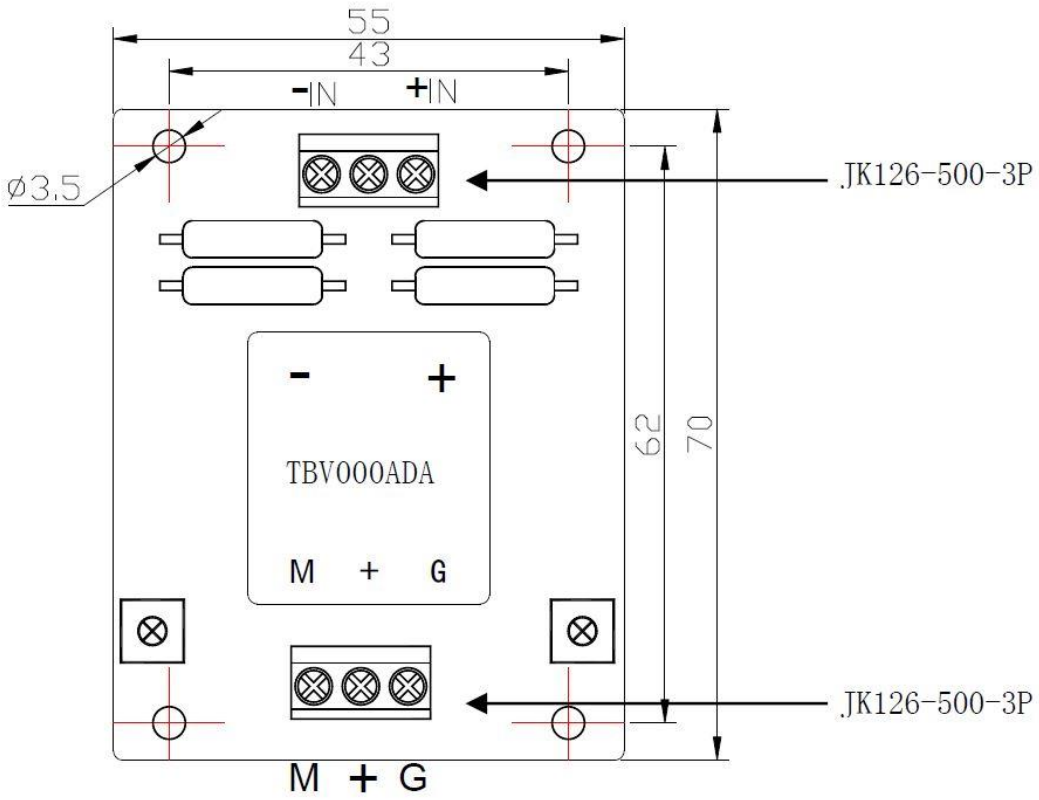
Electrical data (Ta=25℃±5℃)

Type / Parameter	TBV50 ADA12220	TBV100 ADA1220	TBV200 ADA1220	TBC300 ADA1220	TBV400 ADA1220	TBV500 ADA1220	Unit
Rated input (AC Vpn)	50	100	200	300	400	500	V
Measure range (AC Vp)	100	200	400	600	800	1000	V
Rated output (DC Isn)	0-20						mA
Turns ratio (Np/Ns)	3333:1000						T
Rated input (Ipn)	3.0						mA
Supply voltage	12±5%						V
Consumption current	20+IpX (Np/Ns)+ Isn						mA
Zero current	±0.2						mA
Offset current drift	≤±0.005						mA/℃
Linearity	@Vp=0-Vpn	≤0.2					%FS
Response time	≤200						mS
Band-width	@-3dB	40 ~ 5000					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 ±1

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

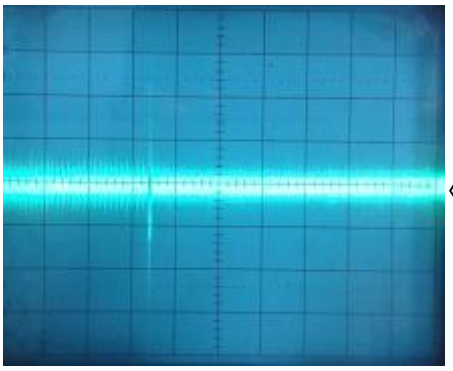
- UL94-V0
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +85	ºC	TA
Storage temperature	-40 to +125	ºC	TS
Mass(approx)	43	g	M

Characteristics chart

Effects of impulse noise



(Output voltage)