



TBV-AS12/24 系列电压变送器的初、次级之间是绝缘的，可用于测量直流和脉冲电压。

TBV-AS12/24 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.

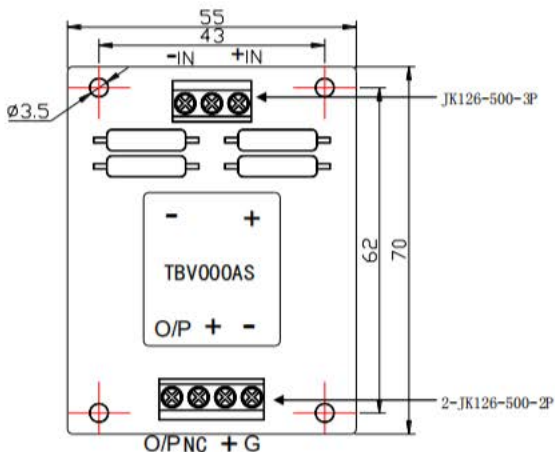
电参数 Electrical data (Ta=25°C ±5°C)

型号 Type 参数 Parameter	TBV50 AS12/24	TBV100 AS12/24	TBV200 AS12/24	TBV300 AS12/24	TBV400 AS12/24	TBV500 AS12/24	单位 Unit
额定输入电压 (Vpn) Rated input (Vpn)	50	100	200	300	400	500	V
测量电压范围 (Vp) Measure range (Vp)	100	200	400	600	800	1000	V
匝 比 (Np/Ns) Turns ratio (Np/Ns)	3333:1000						T
额定输入电流 (Ipn) Rated input (Ipn)	3.0						mA
额定输出电压 Rated output	@Vp=±Vpn ±2±0.5%						V
电源电压 Supply voltage	12±5% /24±5%						V
功耗电流 Power consumption	20+1pX (Np/Ns)						mA
零点电压 Zero voltage	5±0.5%						V
失调电压温漂 Offset voltage drift	@ -40℃~+85℃ ≤±0.3						mV/℃
线性度 Linearity	@Vp=0~±Vpn ≤0.2						%FS
响应时间 Response time	≤40						μ S
带宽 Bandwidth	20~10000						HZ
绝缘电压 Galvanic isolation	@ 50HZ, AC, 1min 2.5						KV

应用 Applications

- 交流变速与伺服马达驱动器
AC variable speed drives and servo motor drives
- 直流电机驱动静态转换器
Static converters for DC motor drives
- 变频调速系统
Variable speed drives
- 电焊机
Power supplies for welding applications
- 通讯电源
Battery supplied applications
- 不间断电源 UPS
Uninterruptible Power Supplies (UPS)
- 开关电源
Switched Mode Power Supplies (SMPS)

结构参数 Mechanical dimension(for reference only)



Remarks:

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

使用说明 Directions for use

1. 当待测电流从变送器穿过, 即可在输出端测得电压大小。(注意: 错误的接线可能导致传感器损坏)
When the current will be measured goes 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. 变送器的输出幅度可根据用户需要进行适当调节。
Customs can adjust Output amplitude of the transmitter by needs.
3. 可按用户需求定制不同额定输入电压和输出电压的变送器。
Custom design in the different rated input current and the output voltage are available.

执行标准 Standards

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

总体参数 General data

	数值 Value	单位 Unit	符号 Symbol
工作温度 Operating temperature	-40 to +85	°C	TA
储存温度 Storage temperature	-40 to +125	°C	TS
毛重(约) Mass(approx)	43	g	M