





TBV-LV5 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)

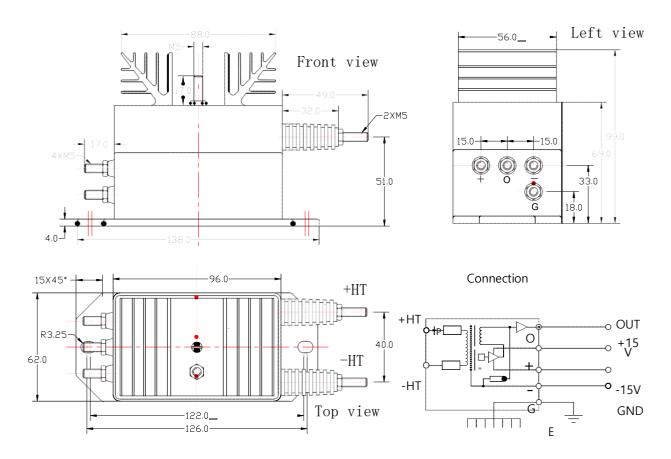
Type Parameter	TBV 200LV5	TBV 300LV5	TBV 500LV5	TBV 1000LV5	TBV 2000LV5	TBV 3000LV5	TBV 4000LV5	TBV 6000LV5	Unit
Rated input (Vpn)	±200	±300	±500	±1000	±2000	±3000	±4000	±6000	V
Measure range (Vp)	±400	±600	±1000	±2000	±4000	±6000	±6000	±9000	V
Total input consumption	0.5	0.75	1.25	2.5	5.0	7.5	10	12.0	W
Rated input (Ip)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0	mA
Turns ratio (Np/Ns)	25000 : 1000					Т			
Secondary coil resister	@ +85℃ 55					Ω			
Rated output (Vsn)	@Vp=±Vpn ±5.0±0.5%						V		
Internal resister	@ ±15V VpN 50±0.1%						Ω		
(±10%) Supply voltage	±15±3%						V		
Consumption current	20+lpX (Np/Ns)						mA		
Offset voltage	@ Vp=0 ≤±30						mV		
Offset drift	≤±0.6					mV/°C			
Linearity	@ Vp =0-±Vpn ≤0.1						%FS		
Response time	≤200						uS		
Galvanic isolation	@ 50HZ, AC,1min Between primary and secondary + shield 12.0					KV			



Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

Mechanical dimension (for reference only)



Remarks:

- 1. All dimensions are in mm.
- 2. General tolerance ±1mm

Directions for use

- 1. Is is positive when the Ip is applied to the terminal +HT. Temperature of the primary conductor should not exceed 100°C.
- 2. When the voltage is measured through a sensor, the current will be measured at the output end. (Note: The false wiring may result in the damage of the sensor)
- 3. Custom design in the different rated input voltage and the output current 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)	850	a	М					

Characteristics chart

Effects of impulse noise

