

**PN : BJHVS-AS3.3**

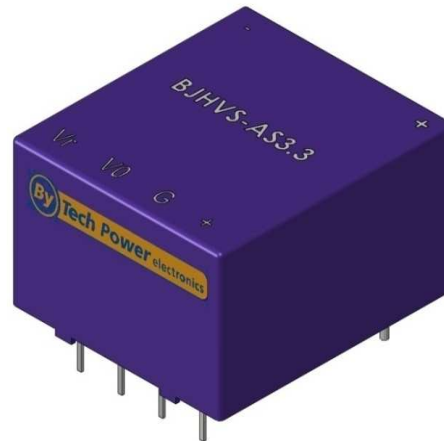
**VPN = 1200V - 500V**

### Features

- Closed loop
- High accuracy
- Very good linearity
- Low response time
- Low temperature drift
- High immunity to external interferences
- Supply voltage : +3,3V DC
- Voltage output
- PCB mounting
- Can be customized

### Applications

- AC/DC variable speed motor driver
- Battery applications
- Uninterruptible power supplies (UPS)
- Power supplies for welding applications



### ELECTRICAL DATA

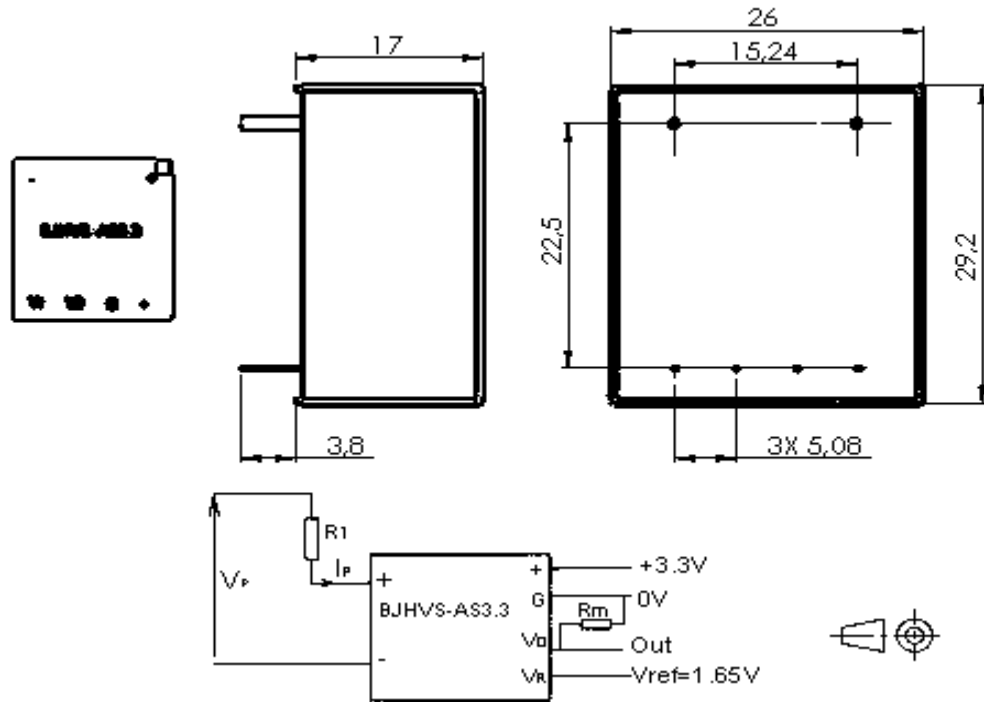
BJHVS-AS3.3-...	5	10
<b>Measuring voltage <math>V_{PN}</math> (V)</b>	<b>1200</b>	<b>500</b>
Nominal rms current $I_{PN}$ (mA)	5	10
Measuring range $I_{PM}$ (mA)	10	20
Measuring resistance $R_M$ ( $\Omega$ )	$50 \pm 0,1\%$ 25 PPM	$50 \pm 0,1\%$ 25 PPM
Coil turns ratio $K (P^N:S^N)$	2500:1000	1250:1000
Rated output voltage $V_O$ (V)	$V_{OE} \pm 0,625$	
Supply voltage $V_C$ (Vdc)	$+3,3 \pm 5\%$	

### ACCURACY DYNAMIC PERFORMANCE

### GENERAL & ISOLATION CHARACTERISTICS

Overall accuracy $X_G$ @ $V_{PN}$ , $T=25^\circ\text{C}$	$\pm 0,5$	%	Operating temperature	-40 to +85	$^\circ\text{C}$
Zero offset voltage $V_{OE}$ @ $I_P=0$ , $T=25^\circ\text{C}$	$1,65 \pm 0,5\%$	V	Storage temperature	-40 to +125	$^\circ\text{C}$
Offset voltage drift $V_{OE}$ @ $-40^\circ\text{C}$ to $+85^\circ\text{C}$	$\leq \pm 1$	mV/ $^\circ\text{C}$	Weight (05/10)	27/22	g
Linearity error $\epsilon_L$	$\leq 1$	% FS	Insulation voltage (50Hz, 1mn)	2,5	KV
Response time $t_r$	$\leq 5$	$\mu\text{s}$			

## DIMENSIONS



## MECHANICAL CHARACTERISTICS

General tolerance	± 0,2 mm
Fastening and connection of primary	2 pins 0,8 mm x 0,8 mm
Terminal connection	3 pins 0,8 mm x 0,8 mm

### Cautions :

- The choice of  $R_1$  is important, the best accuracy of the sensor is achieved when the current flowing through  $R_1$  is near the rated primary current;
- Considering the resistance of primary coil (compared with  $R_1$  and temperature difference kept as low as possible);
- Do respect electrical isolation within measure range;
- For the required connection circuit, see the drawing above.

**WARNING : Incorrect wiring may cause damage to the sensor.**