

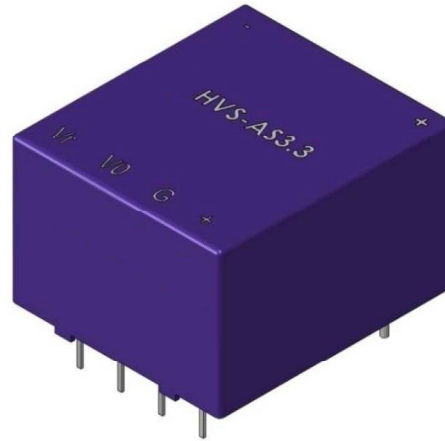
**PN : HVS-AS3.3**

**VPN = 1200V - 500V**

**Features**

- Closed loop
- High accuracy
- Supply voltage : +3,3V DC
- Voltage output
- PCB mounting
- Can be customized

Very good linearity  
 Low response time  
 Low temperature drift  
 High immunity to external interferences



**Applications**

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

**ELECTRICAL DATA**

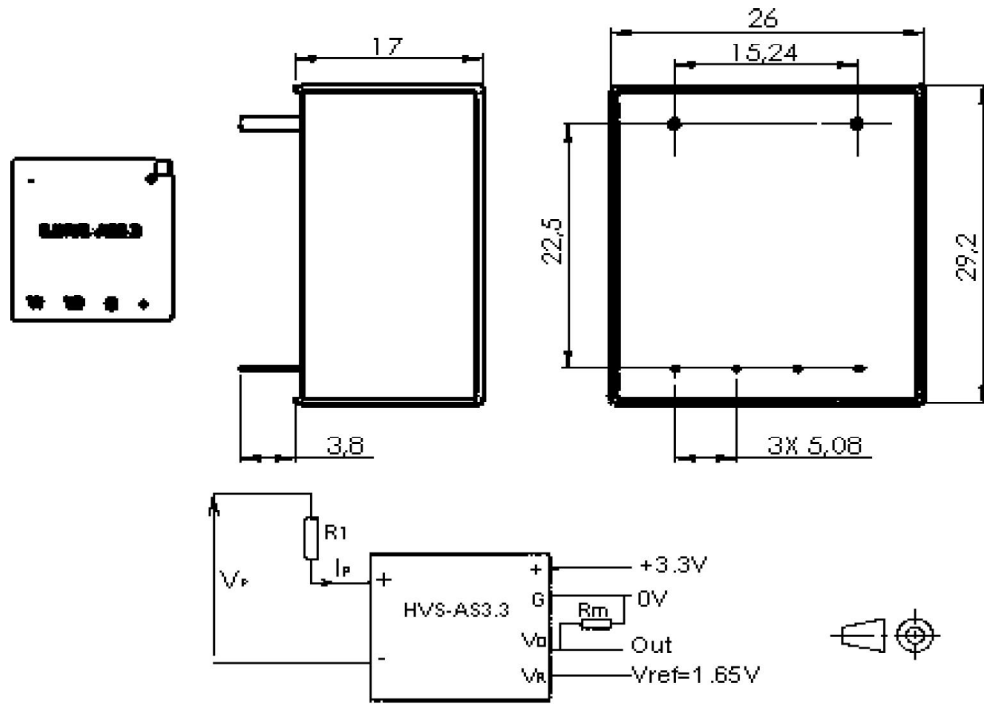
HVS-AS3.3-...	05	10
Measuring voltage $V_{PN}$ (V)	1200	500
Nominal rms current $I_{PN}$ (mA)	5	10
Measuring range $I_{PM}$ (mA)	10	20
Measuring resistance $R_M$ ( $\Omega$ )	$50 \pm 0,1\%$ 25 PPM	
Coil turns ratio K ( $P^{ry} : S^{ry}$ )	2500:1000	1250:1000
Rated output voltage $V_O$ (V)	$V_{OE} \pm 0,625$	
Supply voltage $V_C$ (Vdc)	$+3,3 \pm 5\%$	

**ACCURACY DYNAMIC PERFORMANCE**

**GENERAL & ISOLATION CHARACTERISTICS**

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

## DIMENSIONS



## MECHANICAL CHARACTERISTICS

General tolerance	$\pm 0,2$ 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.**