

PN : BJHVS5-25A/025A

VPN = 1200V - 500V

Features

- Closed loop
- High accuracy
- Very good linearity
- Low response time
- Low temperature drift
- High immunity to external interferences
- Supply voltage : $\pm 15V$ DC
- Current output
- PCB mounting
- Can be customized

Applications

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

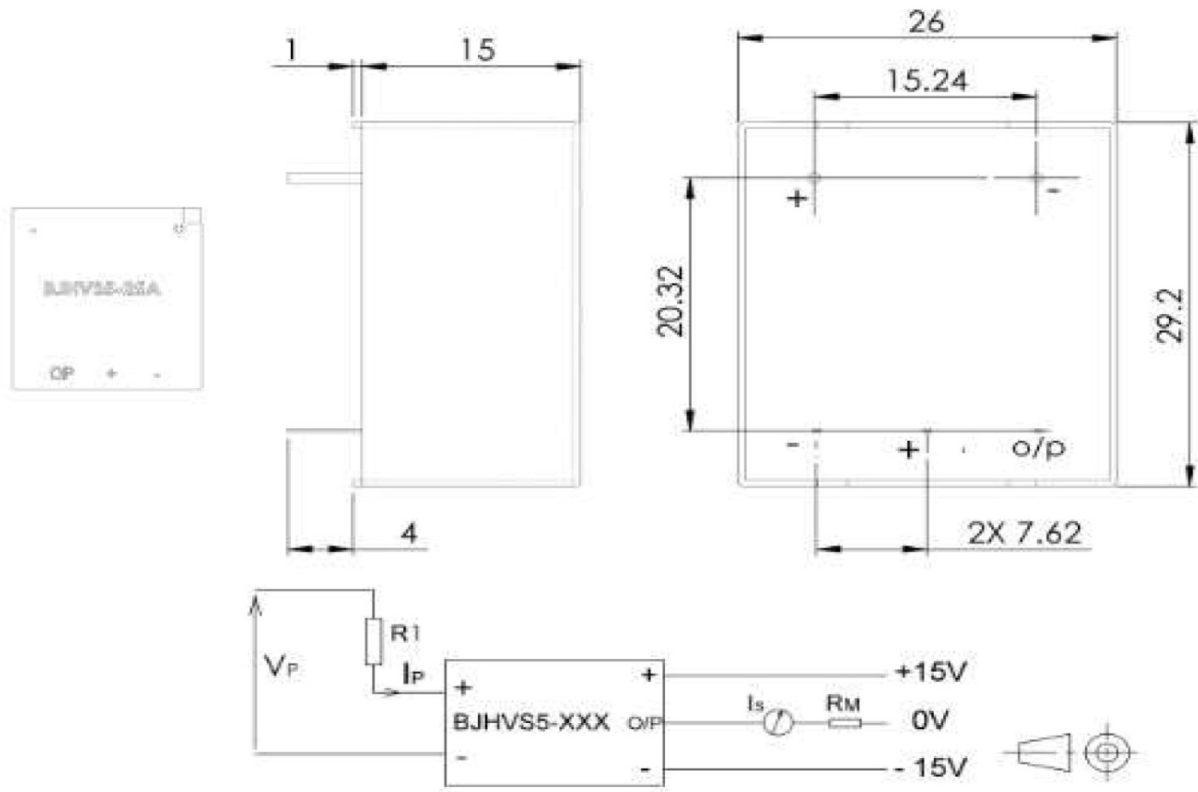


ELECTRICAL DATA

BJHVS-...		5-25A		025A	
Measuring voltage V_{PN} (V)		5-1200		10-500	
Nominal rms current I_{PN} (mA)		5		10	
Sensed current range I_{PM} (mA)		± 7		± 14	
Measuring resistance with $V_C = \pm 15V$	$@ \pm I_P$ (mA)	5		10	
	R_M min(Ω) = R_M max(Ω) =	100	350	100	350
	$@ \pm I_P$ max (A)	7		14	
R_M min(Ω) = R_M max(Ω) =	100	190	100	190	
Coil turns ratio K ($P^Y:S^Y$)		5000:1000		2500:1000	
Primary coil resistance (Ω)		650		170	
Secondary coil resistance (Ω)		60		60	
Nominal output rms current I_{SN} (mA)		25			
Supply voltage V_C (Vdc)		$\pm 12.. \pm 15 \pm 5\%$			
Current consumption I_C (mA)		$15 + I_S$			

ACCURACY DYNAMIC PERFORMANCE			GENERAL & ISOLATION CHARACTERISTICS		
Overall accuracy $X_G @ V_{PN}, T=25^\circ C$	$\pm 0,5$	%	Operating temperature	-40 to +85	$^\circ C$
Offset current $I_0 @ I_P=0, T= 25^\circ C$	$\leq \pm 0,1$	mA	Storage temperature	-40 to +125	$^\circ C$
I_0 Thermal drift @ -40 to +85 $^\circ C$	$\leq \pm 0,5$	mA/ $^\circ C$	Weight (25A/025A)	27/22	g
Linearity error ϵ_L	$< 0,2$	% FS	Insulation voltage (50Hz, 1mn)	2,5	KV
Response time t_r	< 40	μs	Creepage distance (shell)	19,5	mm

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.

WARNING : Incorrect wiring may cause damage to the sensor.



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Components

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