

**PN : BJHCS-LSP3**

**IPN = 6A - 10A - 15A- 25A**

### Features

- Closed loop
- High accuracy
- Small PCB mounting
- Very good linearity
- Low power consumption
- Good over-current capability
- Supply voltage : +3,3V DC
- Voltage output
- Through hole primary
- Can be customized

### Applications

- Frequency drive control home appliances
- Solar power management system
- Inverter applications
- Uninterruptible power supplies (UPS)
- Current monitoring



### ELECTRICAL DATA

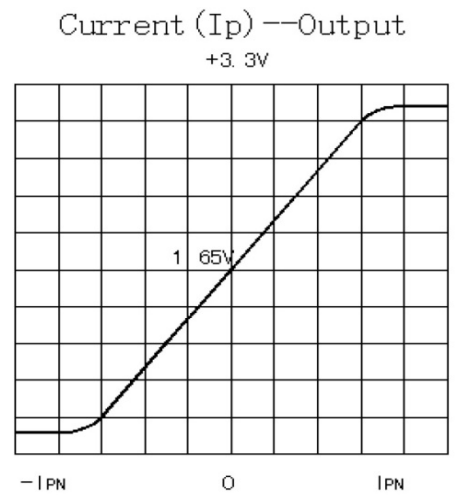
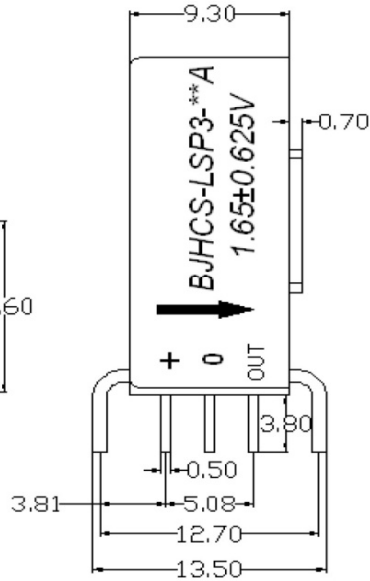
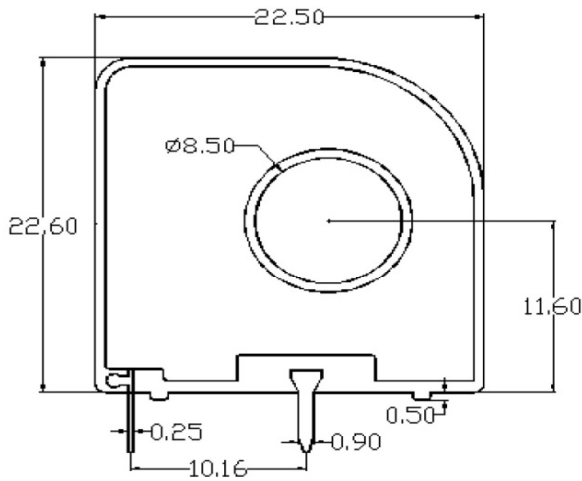
BJHCS-LSP3-...	6A	10A	15A	25A
Nominal rms current $I_{PN}$ (A)	6	10	15	25
Sensed current range $I_{PM}$ (A)	$\pm 12$	$\pm 20$	$\pm 30$	$\pm 50$
Measuring resistance $R_M$ ( $\Omega$ )	100	62,5	42	25
Number of secondary turns ( $T_S$ )	960	1000	1000	1000
Rated output voltage $V_O$ (V)	$V_{OE} \pm (I_P/I_{PN}) * 0,625$			
Supply voltage $V_C$ (Vdc)	$+3,3 \pm 5\%$			
Static current consumption $I_{C0}$ (mA)	10			

### ACCURACY DYNAMIC PERFORMANCE

### GENERAL & ISOLATION CHARACTERISTICS

Overall accuracy $X_G$ @ $I_{PN}$ , $T=25^\circ C$	$\pm 0,7$	%	Operating temperature	-40 to +85	$^\circ C$
Zero offset voltage $V_{OE}$ @ $I_P=0$ , $T=25^\circ C$	$1,65 \pm 15mV$	V	Storage temperature	-40 to +125	$^\circ C$
Offset voltage drift	$\leq \pm 0,5$	mV/ $^\circ C$	Weight	10	g
Linearity error $\epsilon_L$	$\leq 0,1$	% FS	Insulation voltage (50Hz, 1mn)	3	KV
di/dt accurately followed	$> 50$	A/ $\mu s$	Creepage distance (shell)	15,4	mm
Response time $t_r$	$\leq 1$	$\mu s$	Impulse withstand voltage (1,2/50 $\mu s$ )	$> 8$	KV
Bandwidth (-1db)	DC to 200	Khz			

## DIMENSIONS



## MECHANICAL CHARACTERISTICS

General tolerance	$\pm 0,5$ mm
Through hole dimension	$\varnothing 8,5$ mm
Fixed tube feet	0,8 mm x 0,9 mm
Terminal connection	3 pins 0,25 mm x 0,5 mm

### Cautions :

- $I_S$  is positive when  $I_p$  flows in accordance with the arrow direction (see the side of the sensor);
- Primary conductor temperature should not exceed 100°C;
- Best dynamic performances ( $di/dt$  and response time) are achieved with a single electrical conductor completely filling the through hole.

**WARNING : Do not use cable hole input and PCB input together**