

PN : BJHCS151-100/100B

IPN = 25A - 50A

Features

- Closed loop
- High accuracy
- Very good linearity
- Low power consumption
- Good over-current capability
- Supply voltage : $\pm 15V$ DC
- Current output
- Small PCB mounting
- Can be customized

Applications

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



ELECTRICAL DATA

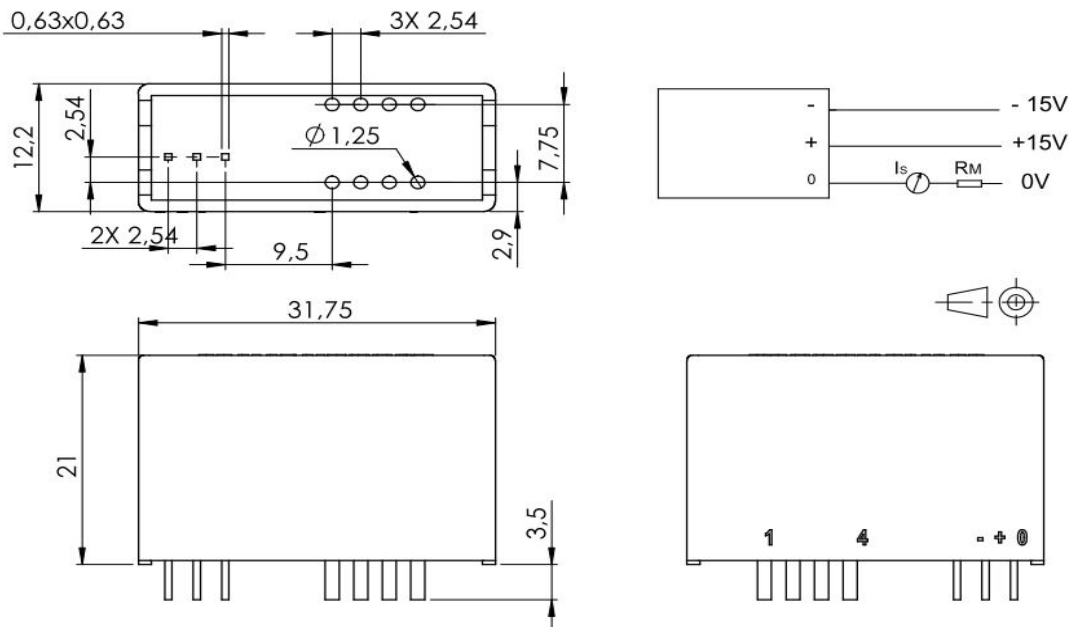
BJHCS-151-...	100	100B
Nominal rms current I_{PN} (A)	25	50
Sensed current range I_{PM} (A)	± 55	± 100
Measuring resistance R_M (Ω) with $V_C = \pm 15$ V	54 to 360	68 to 180
Coil turns ratio K ($P^N:S^N$)	1 - 2 - 3 - 4 : 1000	1 - 2 - 3 - 4 : 1000
Secondary coil resistance (Ω)	30	
Nominal analog output current I_{SN} (mA)	25	50
Static current consumption I_{CO} (mA)	≤ 15	
Supply voltage V_C (Vdc)	$\pm 15^{\pm 5\%}$	

ACCURACY DYNAMIC PERFORMANCE

GENERAL & ISOLATION CHARACTERISTICS

Accuracy X_G @ I_{PN} , $T=25^\circ C$	$\pm 0,5\%$	%	Operating temperature	-40 to +85	$^\circ C$
Zero offset Current I_O @ $I_P=0$, $T=25^\circ C$	$\leq \pm 0,2$	mA	Storage temperature	-40 to +125	$^\circ C$
Zero current drift @ - 40 $^\circ C$ to 85 $^\circ C$	$\leq \pm 0,5$	mA	Weight	15	g
Linearity error ϵ_L	$\leq 0,1$	% FS	Insulation voltage (50Hz, 1mn)	5	KV
di/dt accurately followed	> 50	A/ μs			
Response time t_r	≤ 1	μs			
Bandwidth (- 3db)	DC to 200	kHz			

DIMENSIONS



WIRING DIAGRAM

Number of Primary turns	Primary current I_{PN} (A)		Peak Current I_{PM} (A)		Output Current I_{SN} (mA)		Primary pin
	100	100B	100	100B	100	100B	
							BJSB-151-100 & 100B
1	25	50	55	100	25	50	
2	12	25	27	50	24	50	
3	8	16	18	33	24	48	
4	6	12	13	25	24	48	

MECHANICAL CHARACTERISTICS

General tolerance	$\pm 0,2$ mm
Primary pins	8 x $\text{Ø } 1,25$ mm
Terminal connection	3 x 0,635*0,635

Cautions :

- Do respect the wiring diagram in accordance with the current value and its flow direction.

WARNING : Incorrect wiring may cause damage to the sensor.