

**PN : BJHCS-K3**

**IPN = 50A - 100A - 150A - 200A -  
300A - 400A - 500A - 600A**

### Features

- Open loop
- Frame mounting
- Small size
- Easy installation
- High anti-jamming capability
- Supply voltage : ±15V DC
- Voltage output
- Through hole primary
- Can be customized

### Applications

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



### ELECTRICAL DATA

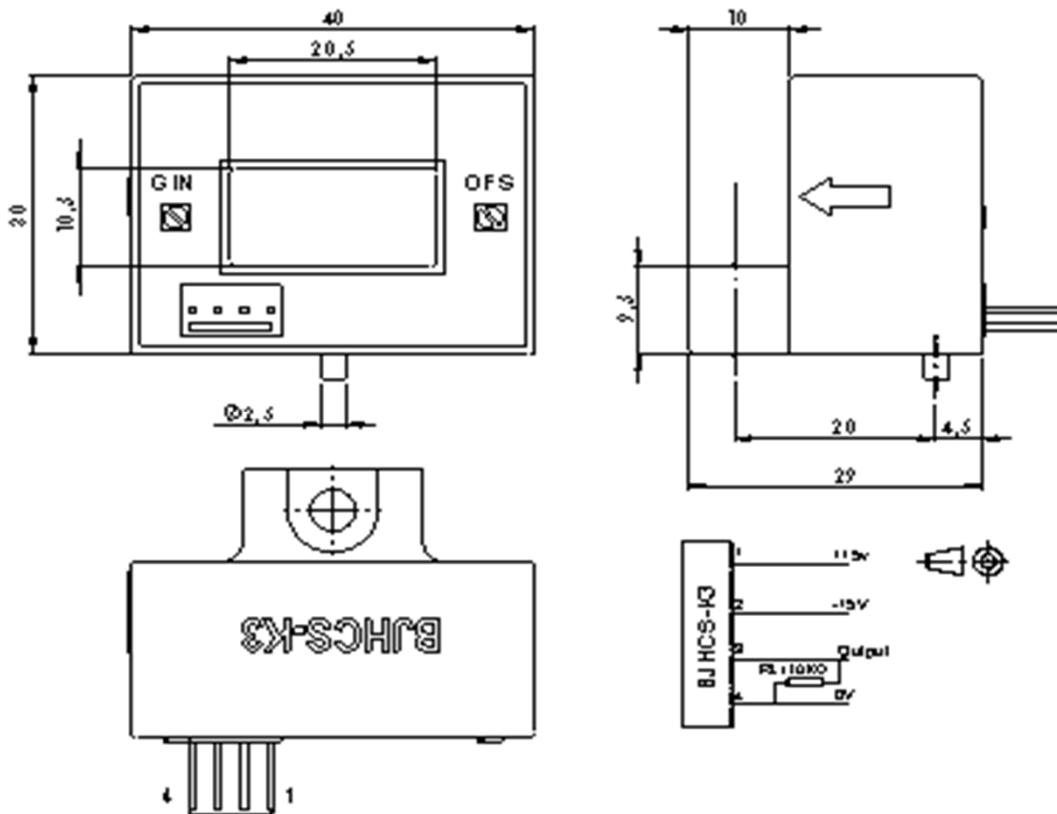
BJHCS-K3-...	50A	100A	150A	200A	300A	400A	500A	600A
Nominal rms current $I_{PN}$ (A)	50	100	150	200	300	400	500	600
Sensed current range $I_{PM}$ (A)	±150	±300	±450	±600	±900	±900	±900	±900
Rated output voltage @ $I_{PN}$ (V)	±4							
Supply voltage $V_C$ (Vdc)	±15 ±5%							
Static current consumption $I_C$ (mA)	≤ 15							

### ACCURACY DYNAMIC PERFORMANCE

### GENERAL & ISOLATION CHARACTERISTICS

Accuracy $X_G$ @ $I_{PN}$ , $T=25^\circ C$	± 1	%	Operating temperature range	-40 to +85	°C
Offset voltage $V_{OE}$ @ $I_p=0$ , $T=25^\circ C$	± 25	mV	Storage temperature	-40 to +125	°C
Offset voltage drift @ -40 to +85 °C	$I_{PN}=50A$	≤ ± 1	Insulation voltage (50Hz, 1mn)	2,5	KV
	Other	≤ ± 0,5			
Hysteresis offset voltage $V_{OH}$ @ -40 to +85 °C	$I_{PN}=50A$	± 25	Weight	65	g
	Other	± 20			
Linearity error $\epsilon_L$	≤ 1	% FS			
Response time $t_r$	≤ 3	µs			

## DIMENSIONS



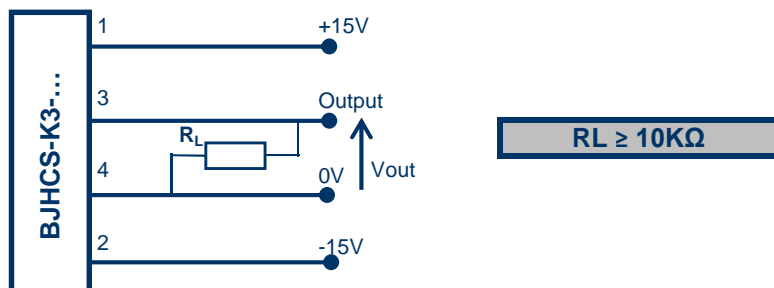
## MECHANICAL CHARACTERISTICS

General tolerance	$\pm 0,2$ mm
Primary square through hole size	20,5 x 10,4 mm
Transducer fastening	1 hole $\varnothing$ 4,5 mm
Terminal connection	Molex 5045-04A

### Cautions :

- $I_S$  is positive when  $I_P$  flows in accordance with the arrow direction (see the top 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;
- To achieve the best magnetic coupling, the primary winding must be wound around the top edge of the sensor.

### Required connection circuit :



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