

SKC xxx-HRC

Series Open Loop Hall Effect Current Sensor

Applications

- I AC variable speed drives
- I Power supplies for welding applications
- I Static converters for DC motor drives
- I Switched Mode Power Supplies (SMPS)
- I Battery supplied applications
- I Uninterruptible Power Supplies (UPS)

Electrical data (Ta=25°C ± 5°C, R_L=2KΩ, C_L=10000PF)

Type Parameter	SKC 50 -HRC	SKC 75 -HRC	SKC 100 -HRC	SKC 200 -HRC	SKC 300 -HRC	SKC 400 -HRC	SKC 500 -HRC	SKC 600 -HRC	Unit
Rated input (I _{pn})	± 50	± 75	± 100	± 200	± 300	± 400	± 500	± 600	A
Measure range(I _p)	± 150	± 225	± 300	± 600	± 900	± 900	± 900	± 900	A
Rated output	@I _p = ± I _{pn} ± 4± 1%								V
Supply voltage	± 15 ± 5%								V
Power Consumption	+18,- 10								mA
Offset voltage	± 25								mV
Magnetic offset	± 30	± 25							mV
Offset drift	≤± 1.5	≤± 1.0							mV/°C
Output drift	≤± 1.5	≤± 1.0							mV/°C
Linearity	@I _p =0- ± I _{pn} ≤ 1								%FS
Response time	@50A/μ S, 10% -90% ≤ 3								μ S
Galvanic isolation	@50HZ, AC, 1min 2.5								KV

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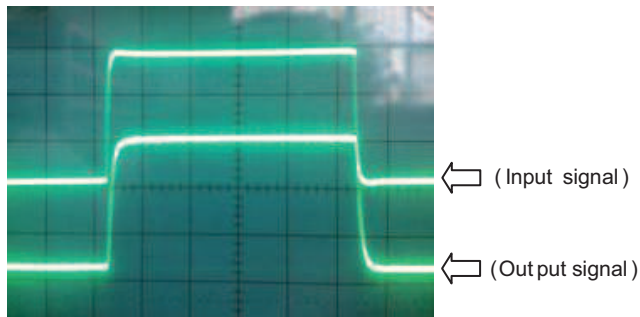
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General data

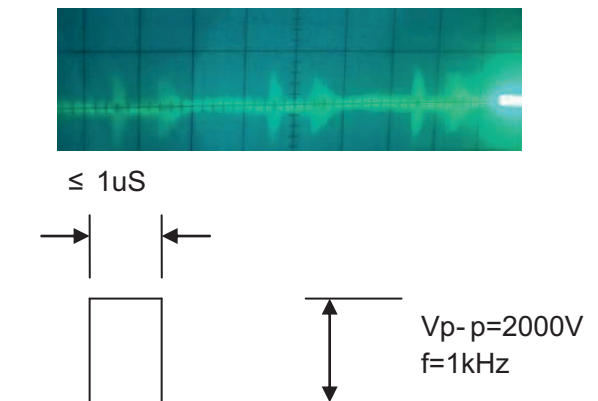
	Value	Unit	Symbol
Operating temperature	- 40 to +85	°C	TA
Storage temperature	- 40 to +125	°C	TS
Mass (approx)	BS:65/BR:80	g	M

Characteristics chart

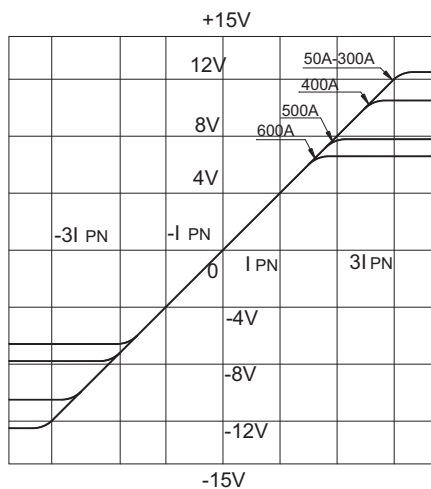
Pulse current signal response characteristic



Effects of impulse noise



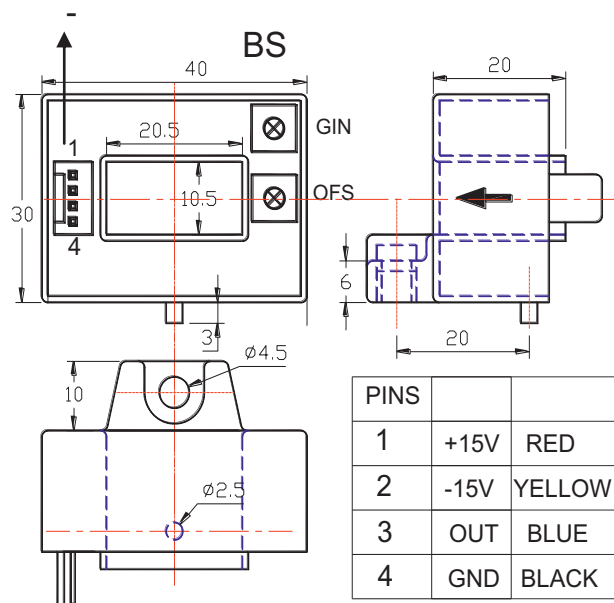
Input current - Output Voltage characteristic



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Mechanical dimension(for reference only)



Remarks :

1. All dimensions are in mm.
2. General tolerance ± 1 mm.

Directions for use

1. When the current will be measured goes through a sensor, the voltage will be measured at the output end,
(Note: The false wiring may result in the damage of the sensor).