



TKC-BSF52 series current sensor is an open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of DC, AC or pulsed currents.

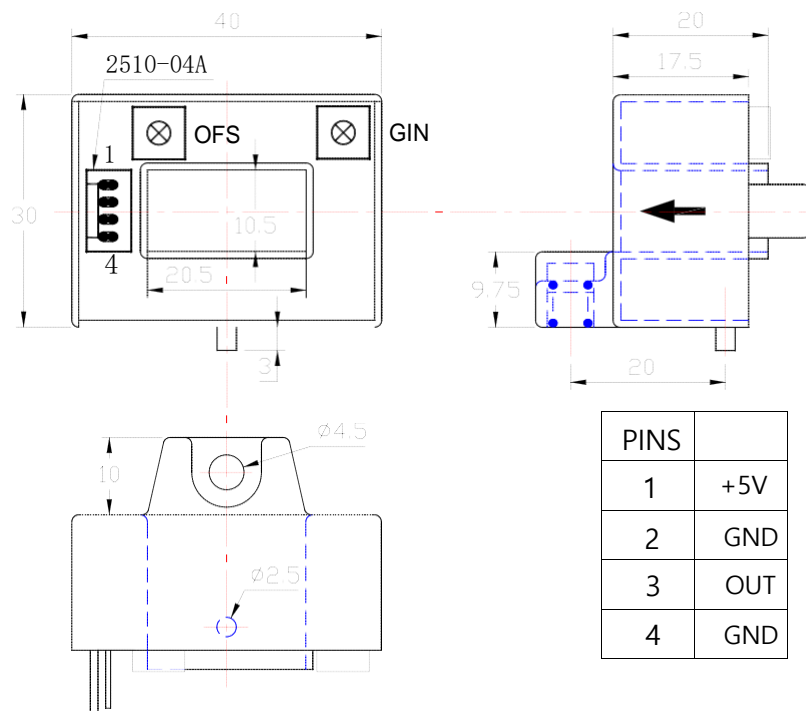
Electrical data (Ta=25°C±5°C, RL=2KΩ, CL=10000PF)

<div>Type</div> <div>Parameter</div>	TKC-50 BSF52	TKC-100 BSF52	TKC-200 BSF52	TKC-300 BSF52	TKC-400 BSF52	TKC-500 BSF52	TKC-600 BSF52	Unit
Rated input	±50	±100	±200	±300	±400	±500	±600	A
Measure range	±55	±110	±220	±330	±440	±550	±660	A
Rated output	@Ip=±Ipn±2±1%							V
Zero voltage	@Ip=02.5±0.5%							V
Reference voltage	2.5±0.5%							V
Supply voltage	+5±5%							V
Power Consumption	≤20							mA
Zero offset voltage	≤±20							mV
Magnetic offset	±15	±10						mV
Offset drift	≤±1.5	≤±1.0						mV/°C
output drift	≤±1.5	≤±1.0						mV/°C
Linearity	@Ip=0-±Ipn≤1							%FS
Response time	@50A/μS, 10%-90%≤3							μS
Band-width	@-3dBDC-25							KHz
Galvanic isolation	@ 50HZ,AC,1min2.5							KV

Applications

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

Mechanical dimension (for reference only)



Remarks :

1. All dimensions are in mm.
2. General tolerance $\pm 1\text{mm}$.

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)
2. Customs can adjust Output amplitude of the sensor by needs.
3. Custom design in the different rated input current and the output voltage are available.

Standards

UL94-V0.

EN60947-1:2004

IEC60950-1:2001

EN50178:1998

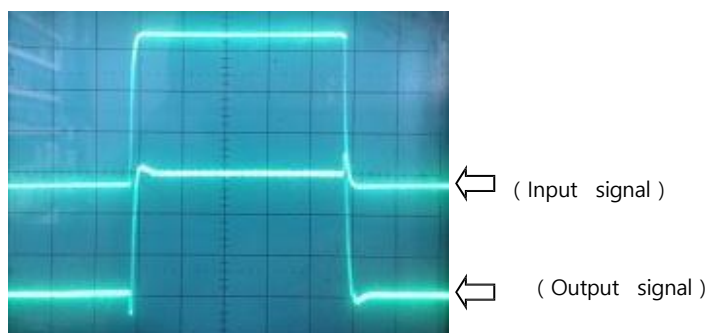
SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	65	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise

