



TKC-GTS1540 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)

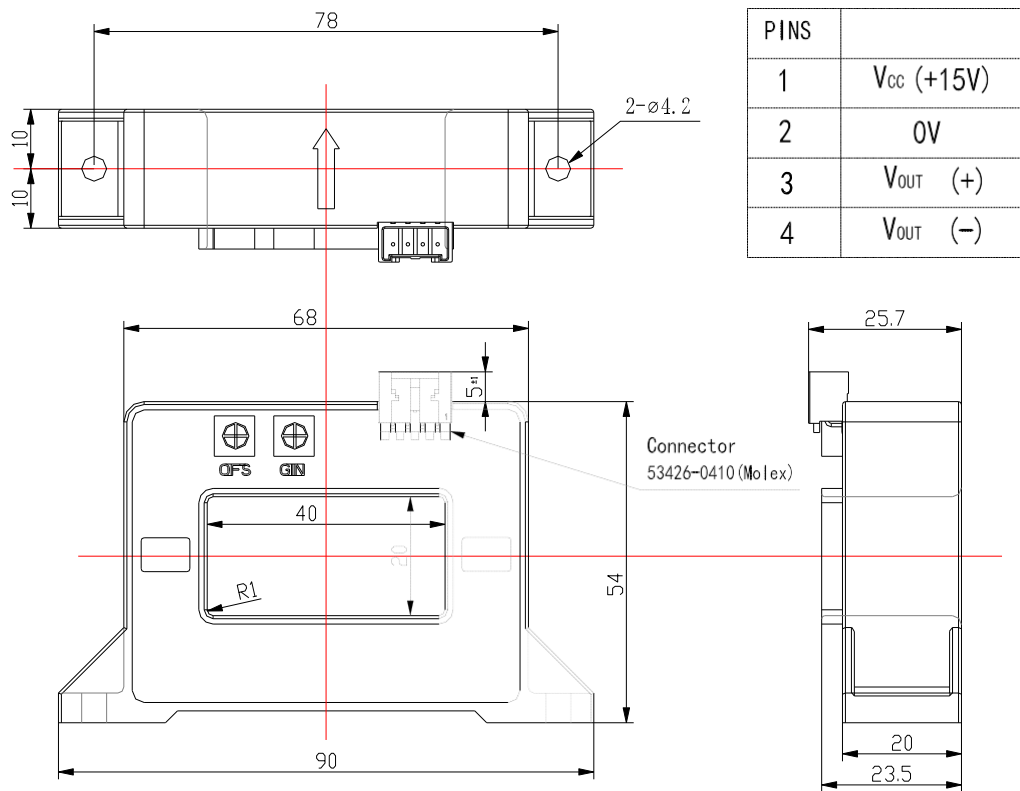
Type Parameter		TKC250 GTS1540	TKC470 GTS1540	Unit
Rated input current	I_{PN}	±250	±470	A
Measure current range	I_P	±2200	±2700	A
Rated output voltage	V_{OUT}	@If= I_{PN} , $V_{OUT} + V_{OE} = 40 \pm 2.0\%FS$ (含失调电压) $RL=4.4K\Omega$ 注: *1)		mV
Supply voltage	V_C	+15±5%		V
Consumption current	I_C	≤15		mA
Offset voltage	V_{OE}	@Ta=25°C、铁芯消磁后 ≤±2		mV
Magnetic Offset voltage	V_{OH}	@ If=0,1× I_P ≤±0.1		mV
Offset voltage drift	TCV_{OE}	≤±2		mV
Output voltage drift	TCV_{OUT}	≤0.1		%/°C
Linearity	ϵ_L	@ If=0...± I_P ≤1.0		%FS
Response time	t	@ di/dt=100A/μs ≤6		μS
Galvanic isolation	V_d	@ 50HZ/60HZ, AC,1min 2.5		KV

Note: *1) This parameter is calculated by reverse calculation through the output value of the load test circuit. For the detailed circuit diagram of the test, see the attached *1) load test circuit.

Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

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)

- Customs can adjust Output amplitude of the sensor by needs.

Standards

UL94-V0
EN60947-1:2004
IEC60950-1:2001
EN50178:1998
SJ20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40to +105	°C	TA
Storage temperature	-40to +125	°C	TS
Mass(approx)	192	g	M

Appendix*1): Load test circuit

