

TKC-NA1540 系列霍尔电流传感器

TKC-NA1540 Series Hall Effect Current Sensor



TKC-NA1540 系列电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

The TKC-NA1540 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.

电参数 Electrical data (Ta=25°C ±5°C, RL=2.2KΩ X2)
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型号 Type 参数 Parameter	TKC 40N1540	TKC 60N1540	TKC 90N1540	TKC 100N1540	TKC 110N1540	TKC 130N1540	TKC 200N1540	单位						
额定输入电流 Rated input current	±40	±60	±90	±100	±110	±130	±200	A						
测量电流范围 Measure current range	±600	±600	±600	±700	±700	±700	±900	A						
额定输出电压 Rated output voltage	@ IP=IPN	±40±1%FS						mV						
电源电压 Supply voltage	+15±5%							V						
功耗电流 Power Consumption	≤15							mA						
失调电压 Offset voltage	≤±2							mV						
磁失调电压 Magnetic Offset voltage	≤±0.1							mV						
失调电压漂移 Offset voltage drift	@ -40~+85°C	≤±2						mV						
线性度 Linearity	@ IP=IPN	≤1						%FS						
响应时间 Response time	@ IP=IPN	≤6						μ S						
绝缘电压 Galvanic isolation	@ 50HZ/60Hz, AC, 1min	2.5						KV						

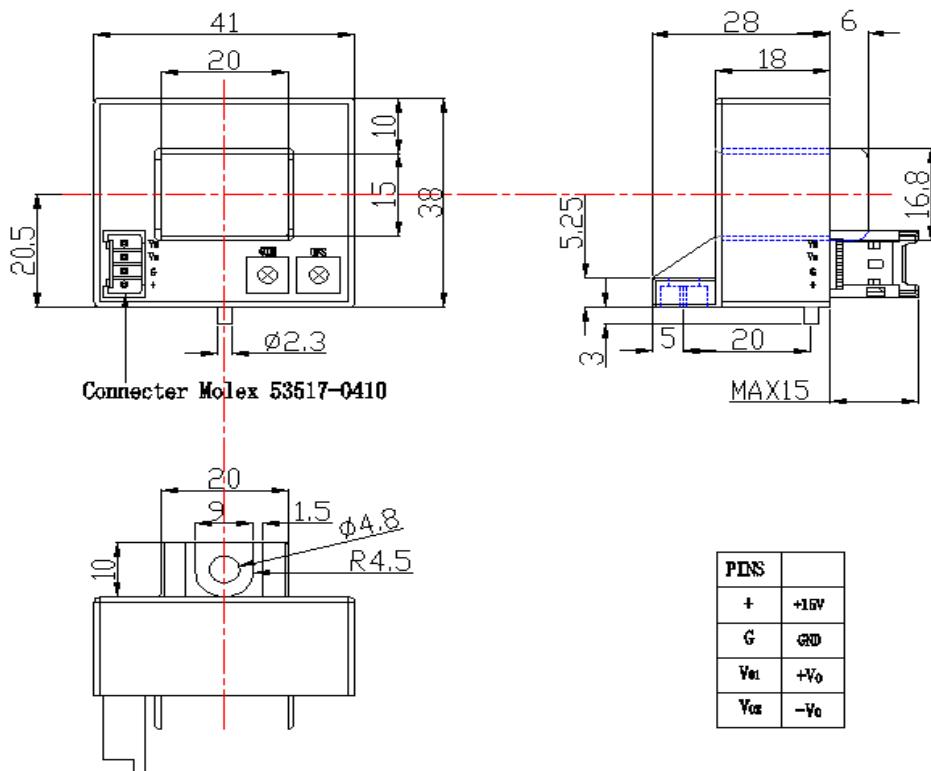
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应用 Applications

- 变频调速系统
Variable speed drives
- 电焊机
Welding machine
- 通讯电源
Battery supplied applications
- 不间断电源 UPS
Uninterruptible Power Supplies (UPS)
- 电化学
Electrochemical

结构参数 Mechanical dimension (for reference only)



Remarks:

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

使用说明 Directions for use

1. 当待测电流从传感器穿过，即可在输出端测得电压大小。(注意：错误的接线可能导致传感器损坏)
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. 传感器的输出幅度可根据用户需要进行适当调节。
Customs can adjust Output amplitude of the sensor by needs.

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3. 可按用户需求定制不同额定输入电流和输出电压的传感器。

Custom design in the different rated input current and the output voltage are available.

执行标准 Standards

- UL94-V0.
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

总体参数 General date

	数值 Value	单位 Unit	符号 Symbol
工作温度 Operating temperature	-10 to +85	°C	TA
储存温度 Storage temperature	-40 to +125	°C	TS
毛重(约) Mass(approx)	80	g	M