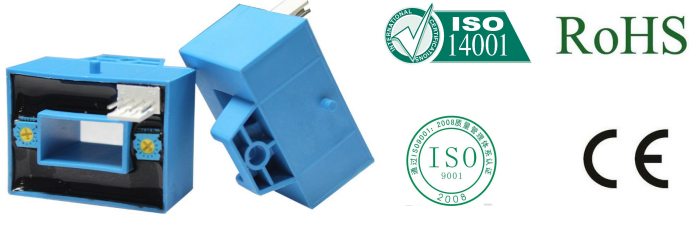


简介 Feature :

| | |
|---|--|
| <ul style="list-style-type: none"> 应用开环原理制作的霍尔电流传感器 Open-loop current transducer using the hall effect 电流传感器的初、次级是绝缘的，能够测量直流，交流，脉冲等 For the electronic measurement of currents: DC, AC,pulsed,..., with galvanic separation between primary circuit and secondary circuit 供电：DC ±12 .. 15V Supply voltage: DC ±12 .. 15V |  |
|---|--|

特性与应用 Advantages & Applications:

| 特性 Advantages | 应用 Applications |
|--|--|
| <ul style="list-style-type: none"> ◇ 易安装 Easy installation ● 低功耗 Low power consumption ◇ 测量范围宽 Only one design for wide current ratings range ◇ 抗干扰能力强 High immunity to external interference ● 无插入损耗 no insertion losses | <ul style="list-style-type: none"> ◇ 变频器应用 The application of variable frequency electrical appliances <ul style="list-style-type: none"> ● AC/DC 变速驱动 AC/DC variable-speed drive ◇ 开关电源 Switched Mode Power Supplies (SMPS) <ul style="list-style-type: none"> ● UPS 不间断电源 Uninterruptible Power Supplies (UPS) ◇ 逆变器上的应用 The applications of inverter |

电气参数 Electrical data : (Ta=25°C , Vc=±15VDC,RL=10KΩ)

| 参数 Parameter | 型号 Type | | WHK50 BS15D4 | WHK100 BS15D4 | WHK200 BS15D4 | WHK300 BS15D4 | WHK400 BS15D4 | WHK600 BS15D4 | Unit |
|-------------------------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------|
| | 符 号 Symbol | | | | | | | | |
| 额定输入 Rated input | IPN | | 50 | 100 | 200 | 300 | 400 | 600 | A |
| 测量范围 Measuring range | IP | | 0 ~ ±150 | 0 ~ ±300 | 0 ~ ±600 | 0 ~ ±900 | 0 ~ ±900 | 0 ~ ±900 | A |
| 输出电压 Output voltage | Vo | | ±4.0*(IP/IPN) | | | | | | V |
| 负载电阻 Load resistance | RL | | >10 | | | | | | KΩ |
| 供电电压 Supply voltage | VC | | (±12 ~ ±15) ±5% | | | | | | V |
| 精度 Accuracy | XG | @IPN,T=25°C | < ±1.0 | | | | | | % |
| 偏移电压 Offset voltage | VOE | @IP=0,T=25°C | < ±25 | | | | | | mV |
| 零点温度漂移 Temperature variation of VOE | VOT | @IP=0,-40 ~ +85°C | < ±1.0 | | | | | | mV/°C |
| 磁滞失调电压 Hysteresis offset voltage | VOH | @IP=0,after 1*IPN | < ±25 | | | | | | mV |
| 线性度 Linearity error | εr | | < 1.0 | | | | | | %FS |
| 跟随精度 di/dt | | | > 100 | | | | | | A/μs |
| 响应时间 Response time | tra | @90% of IPN | < 3.0 | | | | | | μs |
| 静态功耗 Power consumption | IC | | 15 | | | | | | mA |
| 带宽 Bandwidth | BW | @-3dB,IPN | DC-20 | | | | | | KHZ |
| 绝缘电压 Insulation voltage | Vd | @50/60Hz, 1min,AC | 2.5 | | | | | | KV |

总体参数 General data :

| 参数 Parameter | 符号 Symbol | 数值 Value | 单位 Unit |
|----------------------------|-------------------------|------------|---------|
| 工作温度 Operating temperature | TA | -40 ~ +85 | °C |
| 储存温度 Storage temperature | Ts | -55 ~ +125 | °C |
| 重量 Mass | m | 65 | g |
| 外壳材料 Plastic material | PBT G30/G15 , UL94- V0; | | |
| 标准 Standards | IEC60950-1:2001 | | |
| | EN50178:1998 | | |
| | SJ20790-2000 | | |

结构参数 Dimensions(mm):

接线 Connection

公差 General tolerance

总公差
General tolerance: $\pm 0.5\text{mm}$
初级过孔尺寸
Primary through-hole : $10.5 \times 20.5 \pm 0.3$
次级连接器型号 Connection of Secondary :
WHK-BS15D4A/B:
2510-04A (Instead of Molex 5045-04A)
WHK-BS15D4C: 15EDGK3.81-04P
WHK-BS15D4D: 4pin 0.65*0.65mm

备注 Remarks :

1,当被测电流通过传感器的初级引脚时,在输出端有对应的电压信号输出。(注意:错误的接线可能损坏传感器)

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

2,可以根据客户的要求设计不同额定电流的产品,并且传感器的输出电压时可选择的;

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

3,母排完全充满孔时,动态性能最佳;

The dynamic performance is the best when the primary hole if fully filled with;

4,初级导体温度不应超过 100°C;

The primary conductor should be <100°C;