

闭环霍尔电流传感器 AHKB-1005-TS

I_P=1000A







产品特点 Products Features

精度高
Excellent accuracy
良好的线性度
Very good linearity
高带宽
Wide frequency bandwidth
无插入损耗
No insertion losses
抗干扰能力强
High immunity to external interference

应用领域 Applications

交流变速驱动器 AC variable speed drives 直流电机驱动静态转换器 Static converters for DC motor drives 通讯电源 Battery supplied applications 不间断电源 (UPS) Uninterruptible Power Supplies 开关电源 (SMPS) SWITCHED Mode Power Supplies 电焊机 Power supplies for welding applications

注意 Remarks

错误的接线可能导致传感器损坏。

The false wiring may result in the damage of the sensor.

Ip 方向与产品箭头方向一致时,输出电压为正极。 VOUT is positive when IP flows in the direction of the arrow

当初级导体完全充满初级孔径时动态表现(di/dt 和响应时间)为最佳效果。

Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.

初级导体的温度不应超过 100℃。

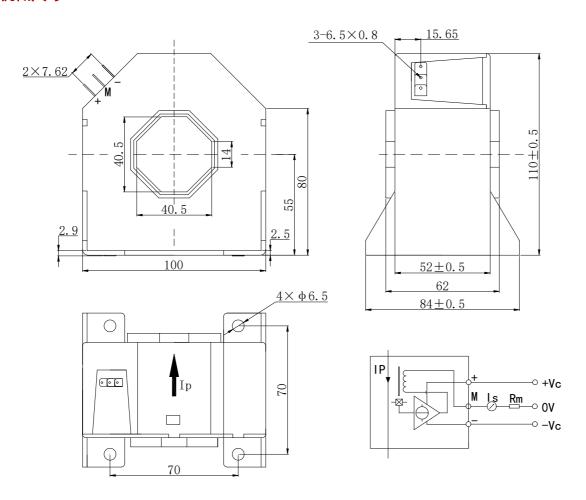
Temperature of the primary conductor should not exceed 100°C.

这是一个标准的产品,需要其他规格(测量电流、电源电压、输出电压、连接器、转换比率等)请联系我们。

This is a standard model. For different versions (IP,supply voltages, output voltages,connection of secondary,turns ratios...),please contact us.



机械尺寸 Mechanical dimension



机械特性 Mechanical characteristics

一般公差

General tolerance \pm 0.5 mm

其它公差执行

Other tolerance execution GB/T 1804-2000-M

固定孔尺

寸 Fixing hole size Ф6.5mm

紧固螺丝

fastening steel screw M6

建议紧固扭矩

Recommended fastening torque 5Nm (± 10 %)

连接器

Connection of secondary $6.5 \text{mm} \times 0.8 \text{mm} (\times 3)$



电气参数 Electrical data AHKB-1005-TS

除非另有说明,否则环境参数均为@ $T_A = 25$ °C

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型号 Type		AHKB-1005-TS
额定测量电流 I _P Rated input		±1000A
测量范围 I _{PM} Measure range		±1500A
额定输出电流 Is Rated output current		±200mA
转换比率 K _N Conversion ratio		1:5000
测量电阻范围 R _м Measure resister range	With±15V @I _P With±15V @I _{PM} With±24V @I _P With±24V @I _{PM}	max 18 Ω max 7 Ω max 61 Ω max 24 Ω
次级线圈电阻 Secondary coil resistance		37Ω
电源电压 V _C Supply voltage		±15VDC~±24VDC (± 5%)
绝缘耐压 V _D Galvanic isolation		50Hz, 1min, 6KV
总体精度 X Overall accuraty		±0.4%FS
线性度 ε∟ Linearity		≤0.1%FS
零点失调电流 Io Offset current		±0.2mA
零点失调电流温漂 I _{OT} Offset current drift		±0.5mA
静态电流消耗 I _C Current consumption		45mA+I _S
响应时间 T _R Response time		<1µs
频带宽度 BW Frequency bandwidth-3db		DC~150KHz
di/dt 跟随精度 di/dt accurately followed		>100A/µS
工作环境温度 T _A Ambient operating temperature		-40∼+85℃
储存环境温度 T _S Ambient storage temperature		-40∼+125℃
质量 m Mass		≈750g
执行标准 Standards		SJ 20790-2000; JB/T 7490-2007