

HA25—NP系列霍尔电流传感器

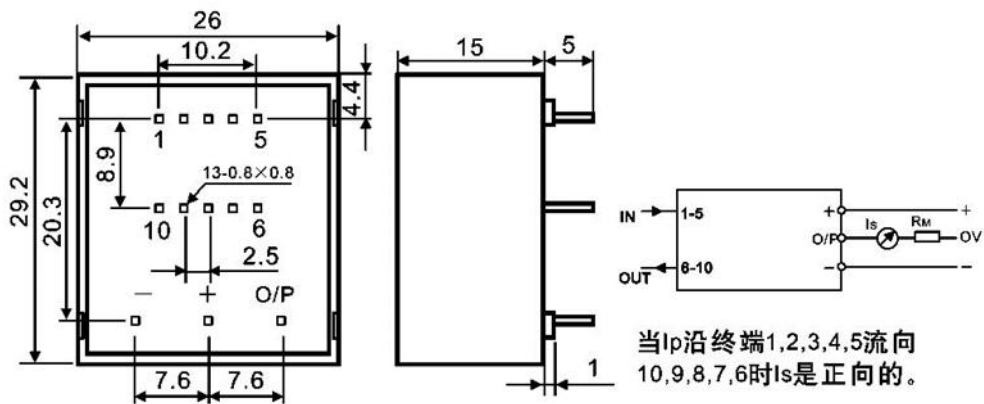
(HA25-NP Hall-effect Current Sensor Series)

HA25-NP 系列霍尔电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。
(HA25-NP Series Hall-effect Current Sensor between primary and secondary is insulated, can be used for the measurement of DC, AC and pulse current)

电气参数 (Electrical characteristics)				
	型号 Type	HA25-NP		A
I _{pn}	额定输入电流 Rated input	25		A
I _{pm}	测量电流范围 Measuring range	50		A
R _m	测量电阻 Measuring resistance	100-300		Ω
K _N	匝比 Turns ratio	1-2-3-4-5: 1000		
I _{out}	输出电流 Rated output current	25		mA
R _s	次级线圈内阻 Secondary coil resistance	110		Ω
I _o	零电流失调 Zero offset current	<0.5		mA
V _c	供电电源 Supply voltage	±15±5%		V
I _c	静态功耗 Current consumption	≤20+I _{out}		mA
I _{ot}	零点温漂 Thermal drift of I _o	-40~+85℃	±0.5	mA
F	带宽 Frequency bandwidth(-3dB)	DC~100		KHz
ε _G	精度 Accuracy	±0.5		%
ε _L	线性度 Linearity	±0.2		%

di/dt	跟随精度 Accurately followed	>50	A/μS
Tr	响应时间 Response time	≤1	μS
Vd	绝缘电压 Insulation voltage	2.5	KV
Ta	工作温度 Ambient operating temperature	-40~+85	°C
Ts	储存温度 Ambient storage temperature	-40~+125	°C
M	重量 mass	20	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



接线图

匝数	额定输入电流IPN	峰值输入电流IP	额定输出电流mA	匝比	初级阻抗mΩ	初级漏感uH	初级连接
1	25	50	25	1/1000	0.3	0.023	
2	12	24	24	2/1000	1.1	0.09	
3	8	16	24	3/1000	2.5	0.21	
4	6	12	24	4/1000	4.4	0.37	
5	5	10	25	5/1000	6.3	0.58	

输入引脚: 0.8*0.8mm-10Pin 引脚

引脚说明: 1, +15V 2, Iout 3, -15V; 3Pin-φ0.8mm

使用说明 Remarks

- 1、应用：通讯电源、不间断电源UPS、斩波器、电化学、整流、电源监测、电焊机、变频、开关电源、电池监测、电动机监测等领域。Application: communication power supply, uninterruptible power supply UPS chopper, electrochemical, rectifier, power monitoring, welding machines, inverter, switching power supply, battery monitoring, motor monitoring fields.
- 2、传感器的输出幅度可根据用户需要进行适当调节。The amplitude of the output of the sensor can be appropriately adjusted according to user needs.
- 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 different rated input current and the output voltage of the sensor.