

HBA—YSC系列霍尔电流传感器

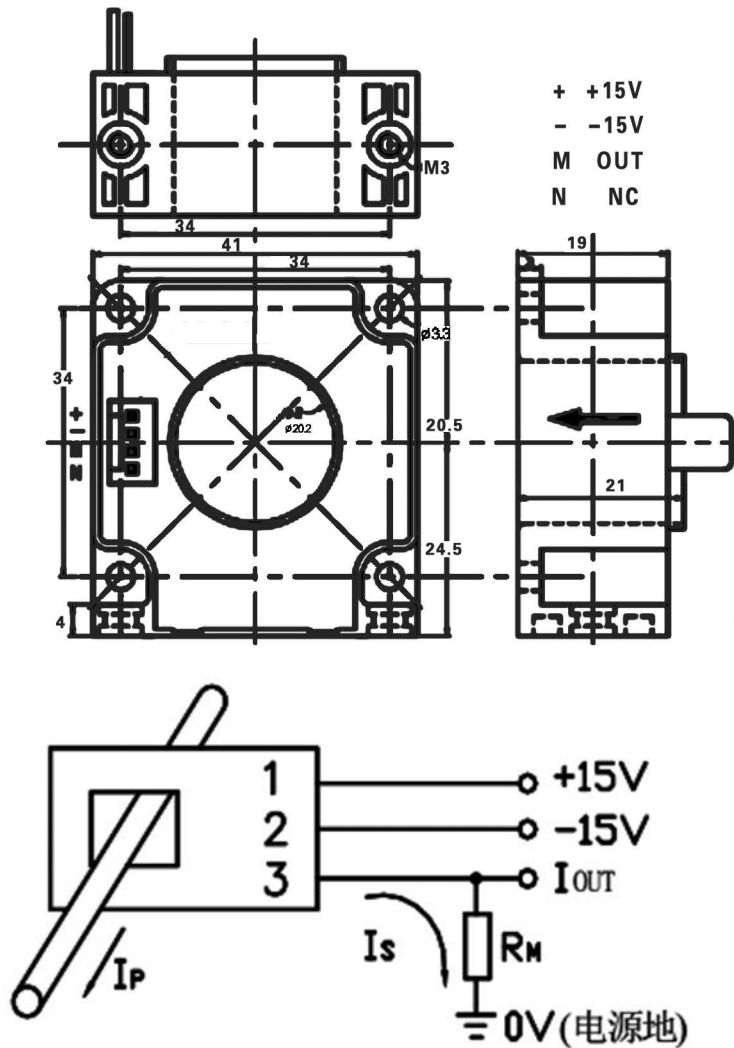
(HBA-YSC Hall-effect Current Sensor Series)

HBA-YSC 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。
(HBA-YSC 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	HBA50-YSC	HBA100-YSC	HBA200-YSC	HBA300-YSC	A
I _{pn}	额定输入电流 Rated input	50	100	200	300	A
I _{pm}	测量电流范围 Measuring range	100	200	400	600	A
R _m	测量电阻 Measuring resistance					Ω
	@±12V	Max50A (0-80 Ω)	Max100A (0-80 Ω)	Max200A (0-80 Ω)	Max300A (0-76 Ω)	Ω
		Max100A (0-25 Ω)	Max200A (0-25 Ω)	Max400A (0-20 Ω)	Max600A (0-22 Ω)	Ω
	@±15V	Max50A (0-110 Ω)	Max100A (0-110 Ω)	Max200A (0-120 Ω)	Max300A (0-100 Ω)	Ω
		Max100A (0-40 Ω)	Max200A (0-40 Ω)	Max400A (0-30 Ω)	Max600A (0-36 Ω)	Ω
K _N	匝比 Turns ratio	1: 1000	1: 1000	1: 2000	1: 3000	
I _{out}	输出电流 Rated output current	50	100	100	100	mA
R _s	次级线圈内阻 Secondary coil resistance	25	25	21	32	Ω
I _o	零电流失调 Zero offset current	<0.2				mA
V _c	供电电源 Supply voltage	±15±5%				V

Ic	静态功耗 Current consumption	$\leq 25 + I_{out}$		mA
Iot	零点温漂 Thermal drift of I _o	-40~+85°C	± 0.5	mA
F	带宽 Frequency bandwidth (-3 dB)	DC~100		KHz
ϵG	精度 Accuracy	± 0.2		%
ϵL	线性度 Linearity	± 0.1		%
di/dt	跟随精度 Accurately followed	>200		A/ μ S
Tr	响应时间 Response time	≤ 1		μ S
Vd	绝缘电压 Insulation voltage	3.0		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	75		g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS		

机械参数 Dimensions (mm)



引脚说明: 1, +15V 2, -15V 3, IOUT 4、空
端子: 连接器 MOLEX-04A 压线端子 (可选电缆输出)

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.