

WCS15A系列

$I_p = 100..2000A$



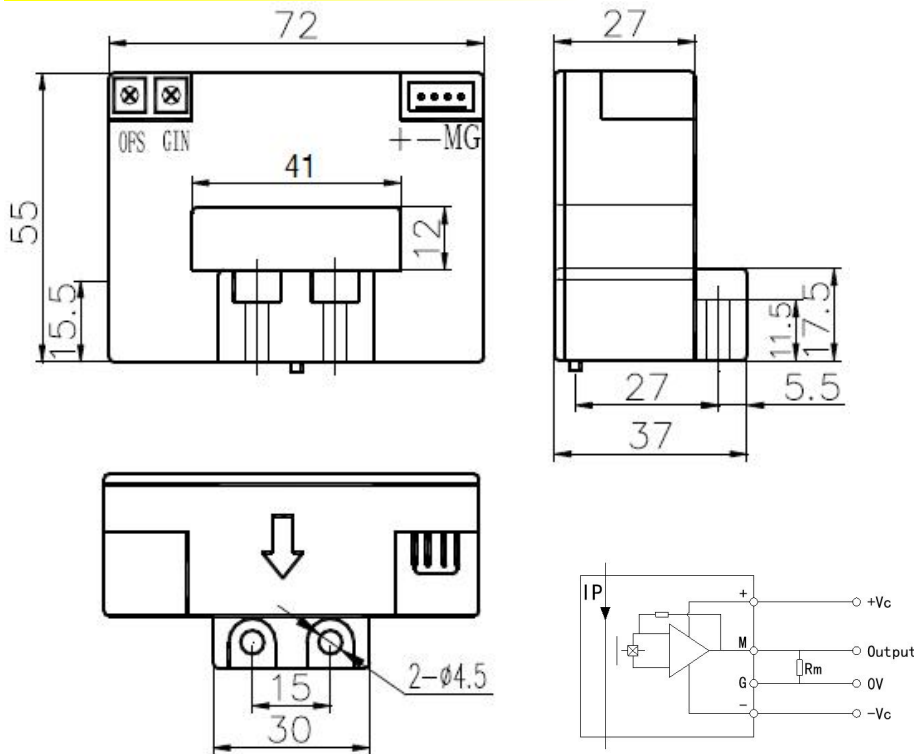
产品特点 Products Features

- 安装方便
Easy mounting
- 体积小, 节省空间
Small size and space saving
- 无插入损耗
No insertion losses
- 抗干扰能力强
High immunity to external interference

应用领域 Applications

- 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

机械尺寸 Mechanical dimension



机械特性 Mechanical characteristics

- 一般公差
General tolerance
 $\pm 0.5 \text{ mm}$
- 其它公差执行
Other tolerance execution
GB/T 1804-2000-M
- 固定孔尺寸
Fixing hole size
 $\Phi 4.5 \text{ mm}$
- 紧固螺丝
Fastening steel screw
M4
- 建议紧固扭矩
Recommended fastening torque
 $1.5 \text{ Nm} (\pm 10 \%)$
- 连接器
Connection of secondary
2510-4P

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.
- I_p 方向与产品箭头方向一致时, 输出电压为正极。
 V_{OUT} is positive when I_p 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°C 。
Temperature of the primary conductor should not exceed 100°C .

电气参数Electrical data **WGS15A-XXXX**除非另有说明, 否则环境参数均为@ $T_A = 25^{\circ}\text{C}$, $R_L = 10\text{ k}\Omega$

型号 Type	WGS15A- 200A	WGS15A- 500A	WGS15A- 1000A	WGS15A- 1500A	WGS15A- 2000A
额定测量电流 I_P Rated input	200A	500A	1000A	1500A	2000A
测量范围 I_{PM} Measure range	600A	1000A	1500A	2000A	2200A
额定输出电压 V_{OUT} Rated output voltage	$\pm 4\text{V}$				
零点电压 V_{off} Offset voltage	$\pm 20\text{mV}$				
零点失调电压温漂 V_{OUT} Offset voltage drift	$\pm 0.5\text{mV}/^{\circ}\text{C}$				
幅度电压温度漂移 V_{OUT} Amplitude voltage temperature drift	$\leq 0.1\%/^{\circ}\text{C}$				
电源电压 V_C Supply voltage	$\pm 12\text{VDC} \sim \pm 15\text{VDC} (\pm 5\%)$				
负载电阻 R_M Load resistance	$\geq 10\text{K}\Omega$				
线性度 ϵ_L Linearity	$\leq 1\%\text{FS}$				
总体精度 X Overall accuracy	$\pm 1\%\text{FS}$				
静态电流消耗 I_C Current consumption	$\leq 40\text{mA}$				
响应时间 T_R Response time	$< 5\mu\text{s}$				
频带宽度 BW Frequency bandwidth-3db	$\text{DC} \sim 20\text{KHz}$				
di/dt 跟随精度 di/dt accurately followed	$> 50\text{A}/\mu\text{s}$				
绝缘耐压 V_D Galvanic isolation	50Hz, 1min, 5KV				
工作环境温度 T_A Ambient operating temperature	$-43^{\circ}\text{C} \sim +105^{\circ}\text{C}$				
储存环境温度 T_s Ambient storage temperature	$-45^{\circ}\text{C} \sim +125^{\circ}\text{C}$				
质量 m Mass	$\approx 250\text{g}$				
执行标准 Standards	JB/T 7490-2007				

定制Customized

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 (I_P , supply voltages, output voltages, connection of secondary, turns ratios...), please contact us.

联系方式Contact information

李伟军 18576721398 www.gchsensord.com victor801@vicorv.com