



WCS24H系列

I_p=2000A



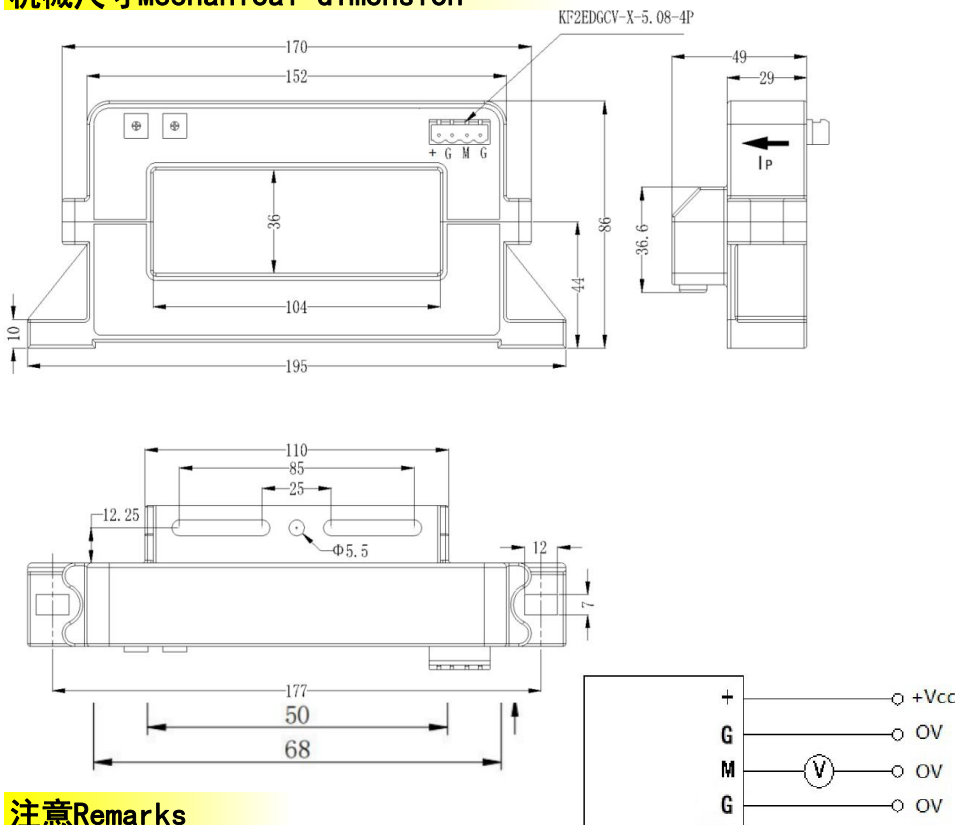
产品特点 Products Features

- 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

- 交流变频驱动器
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

机械尺寸 Mechanical dimension



机械特性

Mechanical characteristics

一般公差
General tolerance
± 2 mm

其它公差执行
Other tolerance execution
GB/T 1804-2000-M

固定孔尺寸
Fixing hole size
7*12mm

紧固螺丝
Fastening steel screw
M6

建议紧固扭矩
Recommended fastening torque
1.5Nm (± 10 %)

连接器
Connection of secondary
KF2EDGCV-X5.08-4P

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 WCS24H-2000A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	WCS24H-2000A
额定测量电流 I_{PN} Rated input	2000A (AC)
测量范围 I_{PM} Measure range	2200A (AC)
额定输出电流 I_s Rated output current	4-20mA
零点失调电流 I_o Offset current	$4 \pm 0.1\text{mA}$
电源电压 V_C Supply voltage	+24V DC ($\pm 5\%$)
负载电阻 R_M Load resistance	$\leq 250\ \Omega$
线性度 ϵ_L Linearity	$\leq 1\%FS$
总体精度 X Overall accuracy	$\pm 1\%FS$
零点失调电流温漂 I_{ot} Offset current drift	$\leq 0.005\text{mA}/^{\circ}\text{C}$
幅度电压温度漂移 I_{out} Amplitude current temperature drift	$\leq 0.005\text{mA}/^{\circ}\text{C}$
静态电流消耗 I_c Current consumption	$\leq 30\text{mA} + I_s$
响应时间 T_R Response time	$< 200\text{ms}$
频带宽度 BW Frequency bandwidth-3db	40-6KHz
di/dt 跟随精度 di/dt accurately followed	$> 10\text{A}/\text{ms}$
绝缘耐压 V_D Galvanic isolation	50Hz, 1min, 3KV
工作环境温度 T_A Ambient operating temperature	$-40 \sim +85^{\circ}\text{C}$
储存环境温度 T_s Ambient storage temperature	$-40 \sim +95^{\circ}\text{C}$
质量 m Mass	$\approx 850\text{g}$
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 (IP, supply voltages, output voltages, connection of secondary, turns ratios...), please contact us.

联系方式Contact information

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