

WCB73A-xxxA/xxxmA

$I_p = 1000 \dots 3000A$



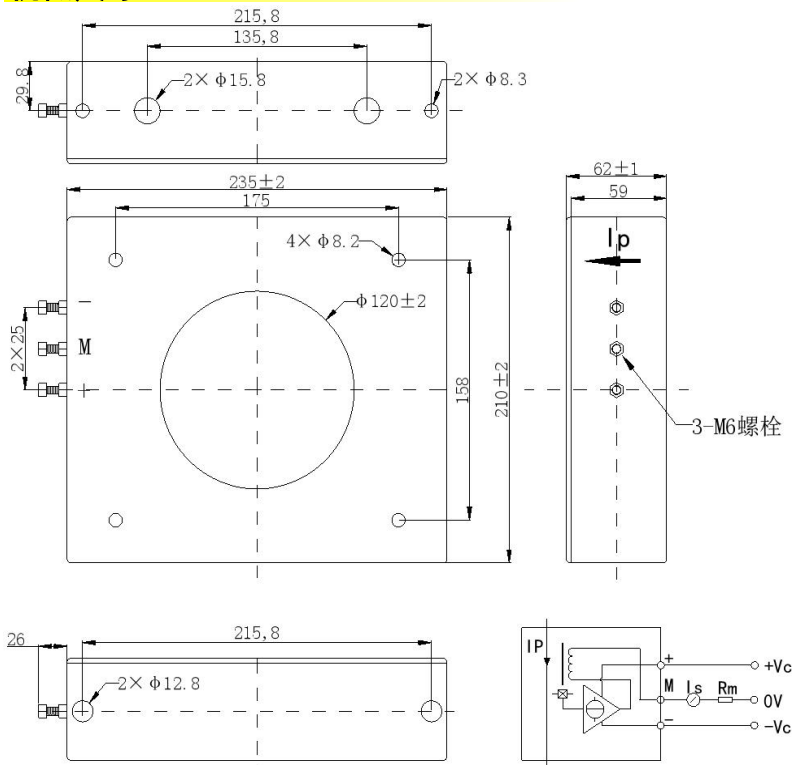
产品特点 Products Features

- 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

$\pm 2mm$

其它公差执行

Other tolerance execution

GB/T 1804-2000-M

固定孔尺

寸 Fixing hole size

$\phi 8.2mm$

紧固螺丝

fastening steel screw

M8

建议紧固扭矩

Recommended fastening torque

5.5Nm ($\pm 10\%$)

连接器

Connection of secondary

$M6 \times 26mm (\times 3)$

连接器推荐扭矩

Connection recommended torque

0.75Nm ($\pm 10\%$)

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 $100^\circ C$ 。

Temperature of the primary conductor should not exceed $100^\circ C$.

电气参数Electrical data **WCB73A-xxxA/xxxmA**除非另有说明，否则环境参数均为@ $T_A = 25^\circ\text{C}$ ，

型号 Type	WCB73A-1000A/200mA	WCB73A-2000A/400mA	WCB73A-3000A/600mA
额定测量电流 I_P Rated input	$\pm 1000\text{A}$	$\pm 2000\text{A}$	$\pm 3000\text{A}$
测量范围 I_{PM} Measure range	$\pm 1500\text{A}$	$\pm 3000\text{A}$	$\pm 4500\text{A}$
额定输出电压 V_{OUT} Rated output voltage	$\pm 200\text{mA}$	$\pm 400\text{mA}$	$\pm 600\text{mA}$
转换比率 K_N Conversion ratio		1:5000	
测量电阻 R_M (@ $\pm 24\text{V}$, @ I_{PM}) Measure resister	$\leq 80\ \Omega$	$\leq 30\ \Omega$	$\leq 13\ \Omega$
总体精度 χ @ I_P Overall accuraty		$\pm 0.3\%$	
次级线圈电阻 Secondary coil resistance		20 Ω	
电源电压 V_C Supply voltage		$\pm 15\text{VDC} \sim \pm 24\text{VDC}$ ($\pm 5\%$)	
静态电流消耗 I_C Current consumption		$\leq 35\text{mA}$ (@ $\pm 15\text{V}$, $I_P=0$)	
零点失调电流 I_0 Offset current		$\pm 0.2\text{mA}$	
零点失调电流温漂 I_{OT} Offset current drift		$\leq \pm 0.05\text{mA}/^\circ\text{C}$	
线性度 ε_L Linearity		$\leq 0.1\%FS$	
频带宽度 BW Frequency bandwidth-3db		DC-100 KHz	
响应时间 T_R Response time		$< 1\ \mu\text{s}$	
di/dt跟随精度 di/dt accurately followed		$> 100\text{A}/\mu\text{s}$	
绝缘耐压 V_D Galvanic isolation		50Hz, 1min, 6KV	
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		$-40 \sim +105^\circ\text{C}$	
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

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