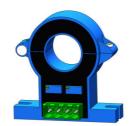
Split Core Hall effect Current Sensor

SCY6D

Product description



Features

- Based on Hall effect measurement principle, open loop circuit mode.
- The isolation voltage between primary and secondary is greater than 3000VAC.
- Can be opened and closed up and down, no need to disassemble the busbar, easy to install.
- Comply with UL94-V0 flame retardant rating.

Performance

- It can measure DC, AC, pulse, and various irregular waveform currents of cable conductors under isolation conditions.
- Wide measurement range, fast response speed, low zero drift, low temperature drift, high accuracy and good linearity.
- Dynamic performance (di/dt and response time) is optimal when the busbar is fully filled with primary perforations.
- Strong ability to resist external electromagnetic interference (BCI, EFT, CS, CE, ESD, dv/dt, etc.).

Application

It can be widely used in communication power supply, UPS, photovoltaic inverter, electric vehicle drive and other products.

Implementation standards

- GB/T 7665-2005
- JB/T 7490-2007
- JB/T 25480-2010
- JB/T 9473-2020
- SJ 20792-2000

Certification







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Technical Parameters

Model	SCY6D-						
Parameters (25°C)	50A	100A	200A	300A	500A		
Primary Current (A)I _{PN}	50A	100A	200A	300A	500A		
Primary Current Max. Peak Value (A) I _{PM}	±50A	±100A	±200A	±300A	±500A		
Output voltage (V) V_{out} @± I_{PN} , R_L =10 $K\Omega$	2.5V±2.0V (±1%)						

Electrical Data

Item	Min.	Typical	Max.	Unit
Input power supply voltage range Vc (±5%) (Remark 1, Remark 2)	_	+12	+15	V _{DC}
Current consumption Ic	-	+15	+20	mA
Withstand resistance R _{INS} @500V DC	1000	-	1	MΩ
Output voltage Vout @ I_{PN} , $R_L=10K\Omega$, $T_A=25^{\circ}C$	$V_{OUT} = 2.5 + 2.02 * \frac{R_L}{100 + R_L} * \frac{I_P}{I_{PN}} + V_{OE}$			V
Output internal resistance R _{OUT}	İ	102	İ	Ω
Load Resistance R _L (Remark 3)	=	10	-	KΩ
Accuracy X @ I_{PN} , $T_A = 25$ °C	=	±1	-	%
Linearity ε_L @ R_L =10K Ω , T_A = 25°C	-	±1	=	$\%\mathrm{I}_{PN}$
Offset voltage V _{OE} @T _A = 25 °C	=	±20	±30	mV
Hysteresis voltage V _{OM} @ I _{PN} →0	=	±15	±25	mV
Temperature Coefficient of Offset Voltage TCV _{OE}	-	±0.5	±1	mV/℃
Output voltage temperature coefficient TCV _{out}	1	±0.08	± 0.15	%/°C
Response time $t_D @ 0 \rightarrow I_{PN (Remark 4)}$	i	3	5	us
Ambient operating temperature T _A	-40	25	125	$^{\circ}$
Ambient storage temperature T _s	-40	25	125	$^{\circ}$
Withstand voltage V _D @50Hz,60s,0.1mA		3000		V_{AC}
Weight m		65		g

Remarks:

VC less than the minimum value will result in inaccurate measurements, and VC greater than the

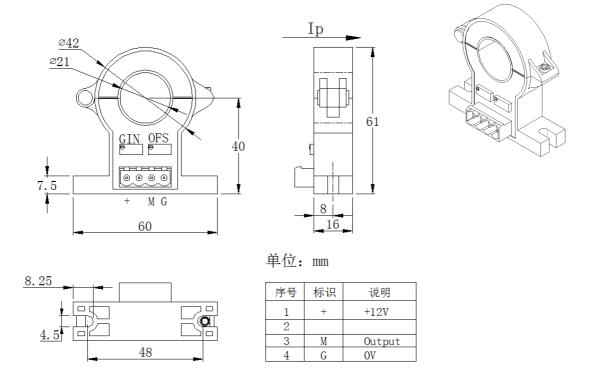
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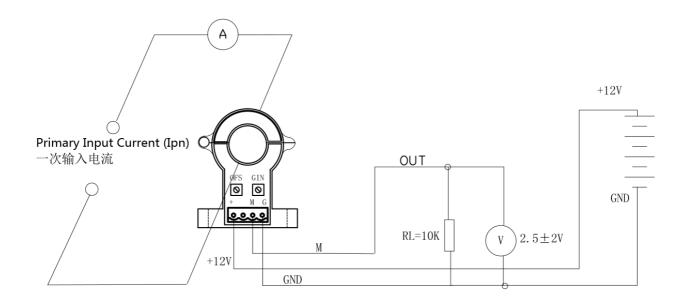
maximum value will cause the measurement device to fail permanently.

Dimensions (in mm)

SCY6D



Wiring Connection Reference:



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Notes:

- 1. Size error: ±1mm;
- 2. Primary aperture: φ21mm;
- 3. SCY6D output terminal: 2EDGVC-5.08-4P
- 4. The IP indication direction is the positive direction of the current, OFS is the zero adjustment, and GIN is the output regulation;
- 5. Incorrect wiring may cause damage to the sensor.