

产品规格书

PRODUCT APPROVAL SHEET

客户名称:					
CUSTOMER:					
贵司制品名:			我司制品名:	直流电流传感器	
CUSTOMER PN:			PRODUCT PN:	DC Current Senso	r
贵司规格:			我司规格:	TFY-CSB-CDA-3	00
PRODUCT CODE:			PRODUCT CODE:		
贵司料号:			我司规格书编号:	TFY-CSB-CDA-300	
CUSTOMER NO.			PRODUCT NO.		
□ 新品承认			批准	审查	设计
□ NEW APPROVE			APPROVAL:	CHECK:	DESIGN:
□ 规格变更再承认					
□ CHANGE CODE			PLB	ZMY	WYD
APPROVE AGAIN					
□ 材料变更再承认					
□ CHANGE MATERIAL			日期 Date:	日期 Date:	日期 Date:
APPROVE AGAIN			2021/10	2021/10	2021/10
贵司承认栏 APPROVAL	SIGNAT	URE	ı		
贵司印章					
Company seal					
			确认人:	联系电话:	
请于 年	月	日前承认返回,	日期 DATE:		
PLEASE RETURN TO US AFTER CONFIRMED! THANK YOU!					

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1. Range of Application

This series of current sensor is a kind of high-precision measurement module designed on the basis of magnetic sensing technology and closed-loop operating principle. It can be applied to DC energy meters, charging piles and charging guns, and can accurately measure DC, AC, pulse and other forms of current waveform.

- 2. Operating Conditions
- 2.1 Atmospheric Pressure: 63kPa~106kPa, altitude below 4000m.
- 2.2 Climate: No gas, stream, chemical deposition, grime that seriously affect the insulation of sensors and other corrosive and explosive medium.
- 2.3 Ambient Temperature and Humidity (Table 1)

Table 1 Range of Ambient Temperature and Humidity

Conditions	Range	Conditions	Range
Ambient			
operating	-40°C~85°C	Mean Annual Humidity	<75%
temperature			
Ultimate operating temperature	-40°C~95°C	30 Days (These days are naturally distributed throughout the year)	95%
Ambient storage temperature	-40°C~85°C	Occasional on other days	85%

3. Reference Standard

JBT 7490-2007 Hall Effect Current Sensor

GB/T33708-2017 Static Meter for DC Energy

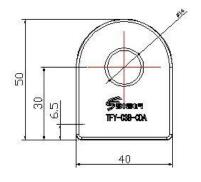
Q/GDW 1825-2013 Technical Specification for DC Electricity Meters

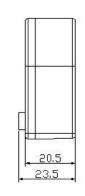
DL/T 1484-2014 Technical Specification for DC Electricity Meters

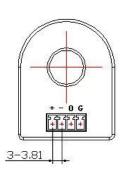
4. Structure and Dimensions

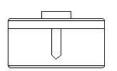


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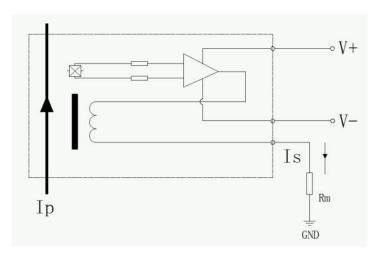


+	V+
<u> </u>	y -
0	Iout
G	GND

总公差: ±0.2mm 初级孔径: D14±0.15mm 次级连接器型号: 15EDGK3.81-0.4P

Figure 1 Dimension

5. Applied Circuit



6. Electrical Parameters: (Ta=25°C)

Definition	Symbols	Value	Unit
Rated current for one measurement	I _{pn}	±300	А
Rated secondary output current	I _{sn}	±80	mA
Measuring range of primary	Ip	±360	Α



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	, , , , , , ,		
current			
Secondary output current	Is	±80 * (I _p /I _{pn})	mA
Sampling Resistance (\pm 12V @Ip=360A)	R _m	0~20	Ω
Supply Voltage	Vc	±12 (±5%)	V
Static Power Consumption (\pm 12V @Ip=0A)	l _C	≤10	mA
Max Power Consumption (\pm 12V @I $_{\rm p}$ =360A)	I _m	≤120	mA
Precision (@0.01 I_{pn} ~0.05 I_{pn} @25 $^{\circ}$ C)	X_{G}	0.5	%
Precision (@0.05 I_{pn} ~ I_{pn} @25 $^{\circ}$ C)	X_{G}	0.2	%
Static Zero Output (@ I_p =0A, @25°C)	OE	<5	μА
Response Speed (@90% I _{pn})	T_{ra}	<5	μ ς
Bandwidth (@I _{pn} , -3dB)	BW	100	kHz
Constant magnetic field influence quantity (@200mT)	δ	≤2	%
Power frequency magnetic field influence quantity (400A/m)	δ	≤1	%