

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 Sensor	
贵司规格:	我司规格:	TFY-CSB-ZL-600	
PRODUCT CODE:	PRODUCT CODE:		
贵司料号:	我司规格书编号:	TFY-CSB-ZL-600	
CUSTOMER NO.	PRODUCT NO.		
<input type="checkbox"/> 新品承认	批准 APPROVAL: PLB 日期 Date: 2021/10	审查 CHECK: ZMY 日期 Date: 2021/10	设计 DESIGN: WYD 日期 Date: 2021/10
<input type="checkbox"/> NEW APPROVE			
<input type="checkbox"/> 规格变更再承认			
<input type="checkbox"/> CHANGE CODE APPROVE AGAIN			
<input type="checkbox"/> 材料变更再承认			
<input type="checkbox"/> CHANGE MATERIAL APPROVE AGAIN			
贵司承认栏 APPROVAL SIGNATURE			
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. Sphere of application

TFY-CSB-ZL series current sensor is a high-precision current measurement module based on tunnel technology and closed-loop working principle, which can measure current with different waveforms such as DC, AC and pulse.

2. Applicable conditions

2.1 atmospheric pressure: 63kPa~106kPa, at an altitude below 4000m.

2.2 Climatic environment: there are no gases, vapors, chemical deposits, dust and other corrosive and explosive media that seriously affect the insulation of the transformer.

2.3 temperature and humidity (table 1)

Table1 temperature and humidity

conditions	scope	conditions	scope
Specified operating temperatures	-40°C~85°C	Average annual humidity	<75%
Extreme operating temperature	-40°C~95°C	30 days (these days are distributed in a natural way throughout the year)	95%
Storage temperature	-40°C~85°C	Occasional on other days	85%

3. Reference standard

JBT 7490-2007 Hall Current Sensor

GB/T33708-2017 Static meter for direct current energy

Q/GDW 1825-2013 Technical specifications for DC energy meters

DL/T 1484-2014 Technical specifications for DC energy meters

4. Structure and size

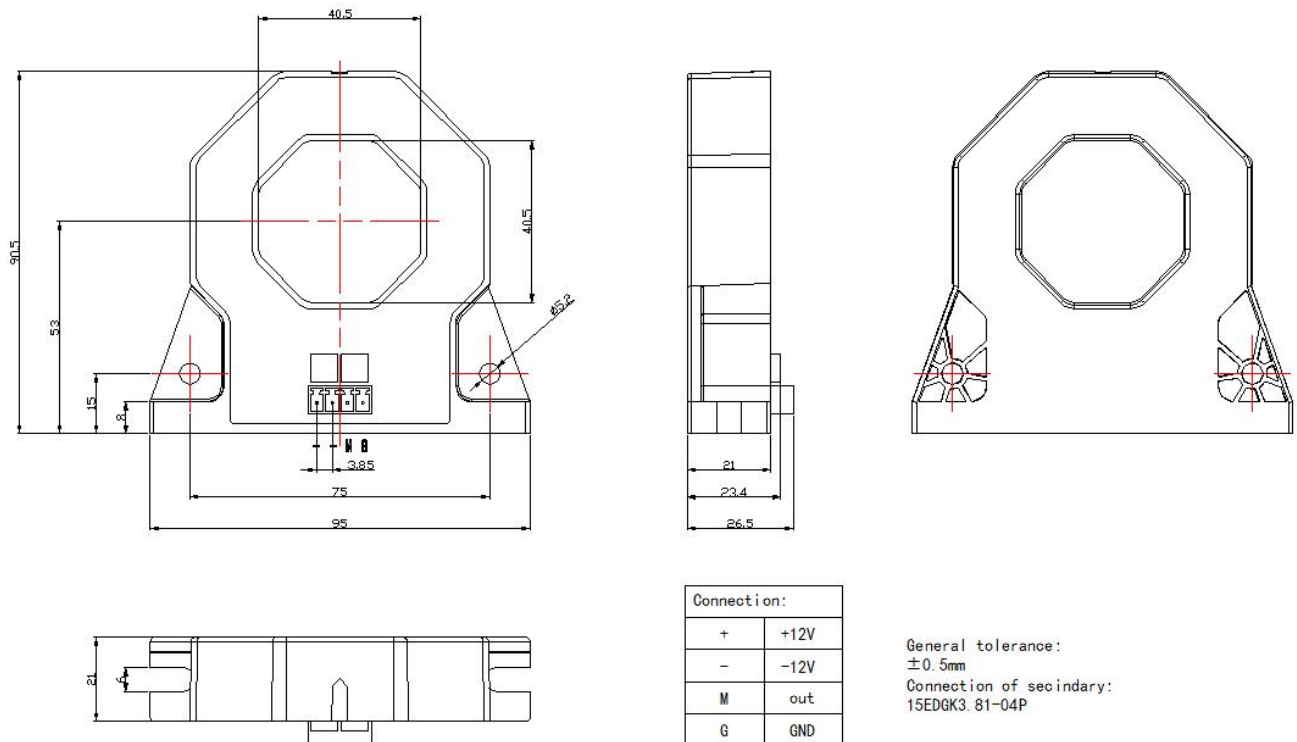


Figure 1 Dimension drawing

5. Electrical parameters: ($T_a=25^{\circ}\text{C}$, $V_c=+12\text{VDC}$, $R_L=10\text{K}\Omega$)

Parameters	Symbol	Value	unit
Rated input	I_{pn}	± 600	A
Maximum measured current	I_p	± 720	A
Output voltage	V_o	$\pm 4.0 * (I_p / I_{pn})$	V
Load impedance	R_L	≥ 10	$\text{K}\Omega$
power supply voltage	V_c	$\pm 12 (\pm 5\%)$	V
static power consumption ($@+12\text{V}$, $I_p=0\text{A}$)	I_c	≤ 5	mA
Maximum power consumption ($@+12\text{V}$, $I_p=250\text{A}$)	I_m	≤ 145	mA
precision ($0.01I_{pn} \sim 0.05I_{pn} @25^{\circ}\text{C}$)	X_G	0.3	%
precision ($0.05I_{pn} \sim I_{pn} @25^{\circ}\text{C}$)	X_G	0.1	%
The zero offset voltage ($I_p=0\text{A}$, $@25^{\circ}\text{C}$)	V_{OE}	$\leq +1$	mV
Zero temperature drift ($I_p=0\text{A}$, $@-40 \sim 85^{\circ}\text{C}$)	V_{OT}	< 0.1	$\text{mV}/^{\circ}\text{C}$
Amplitude error temperature drift ($I_p=I_{pn}$, $@-40 \sim 85^{\circ}\text{C}$)		< 1	%
Hysteresis offset voltage ($@I_p=0$, after $1 * I_{PN}$)	V_{OH}	$\leq \pm 1$	mV
response speed ($@90\% I_{pn}$)	T_{ra}	≤ 5	μS
bandwidth ($@I_{pn}$, -3dB)	BW	DC~20	kHz