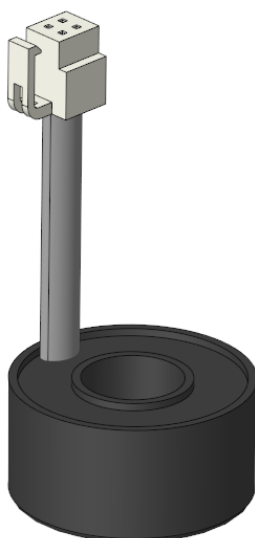


CURRENT SENSOR

PRODUCT SERIES: SFG-X.XCPL/A15

PRODUCT PART NUMBER: SFG-0.3CPL/A15

REVISION: Ver 1.3



Sinomags Technology Co., Ltd.

Website: www.sinomags.com

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1. Description

Features

- Measurement and Type B into one
- High and low level output(Type B part)
- Single supply voltage
- Self-check function

Advantages

- Stable accuracy
- Low hysteresis
- Short response time
- Compact design

Applications

- Ground fault detection
- Converter leakage current detection
- Electric vehicle charge station
- IC-CPD
- Wallbox

Standards

- EN 50178
- IEC 62752 & IEC62955
- IEC 61851
- UL1741 UL508 UL94-V0

2. Absolute parameter

Absolute maximum ratings

Parameter	Symbol	Unit	Min	Typ	Max
Supply voltage	V _c	V			5.5
Ambient operating temperature	T _A	°C	-40		105
Ambient storage temperature	T _A	°C	-40		105

Stresses above these ratings may cause permanent damage. Exposure to absolute maximum ratings for extended periods may degrade reliability.

Isolation parameters

Parameter	Symbol	Unit	Value
RMS voltage for AC test 50Hz/1min	V _d	kV	3
Impulse withstand voltage 1.2/50μs	V _w	kV	7
Lightning surge current 8/20μs	I _{LS}	kA	5
Comparative tracking index	CTI	V	600
Application example	-	V	600,CAT III,PD2

3. Electrical data

Residual Current (Type B)

 at $T_A = 25^{\circ}\text{C}$, $V_C = 5\text{ V}$.

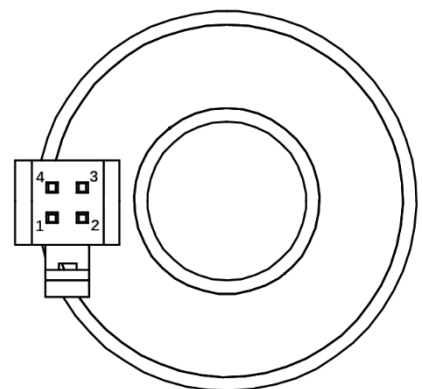
Parameters	Symbol	Unit	Min	Typ	Max	Remark
Supply voltage	V_C	V	4.9	5	5.1	
Current consumption	I_C	mA		11	21	
Measuring range	$I_{\Delta N, \max}$	mA	-100		100	
DC residual operating current	I_{Δ}	mA DC		6		
AC residual operating current	I_{Δ}	mA rms		30		
Output voltage (Check function)	V_{CK}	V		V_C		
Check current	I_{CK}	mA		30		
Check enable voltage	V_{CE}	V	3.3		V_C	
Check disabled voltage	V_{CD}	V		< 0.2		
Power on initialization	t_{on}	ms			60	
Primary nominal RMS current	I_M	A		42		

Measurement

Parameters	Symbol	Unit	Min.	Typ.	Max.
Turns ratio	N_s	NT		1000	
Secondary nominal r.m.s. current	I_{sn}	mA		32	
Accuracy $T_A = 25^{\circ}\text{C}$	X	%		2	
Temperature drift	I_{OT}	ppm/K			5
Frequency range	F	Hz		50/60	

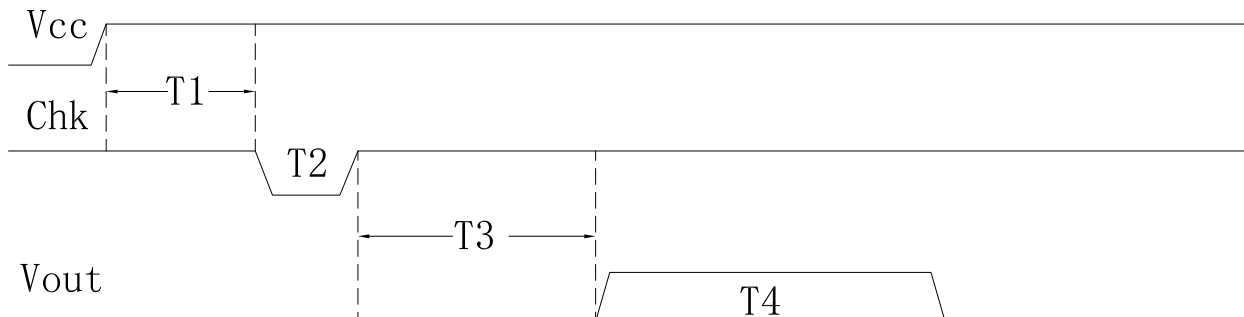
Pin Definition

No.	Symbol	Color	Description
1	VCC	Red	Power supply
2	GND	Black	Power GND
3	Vo	Yellow	High and low level output (For RCD)
4	CHK	Green	Self-Check input(For RCD)



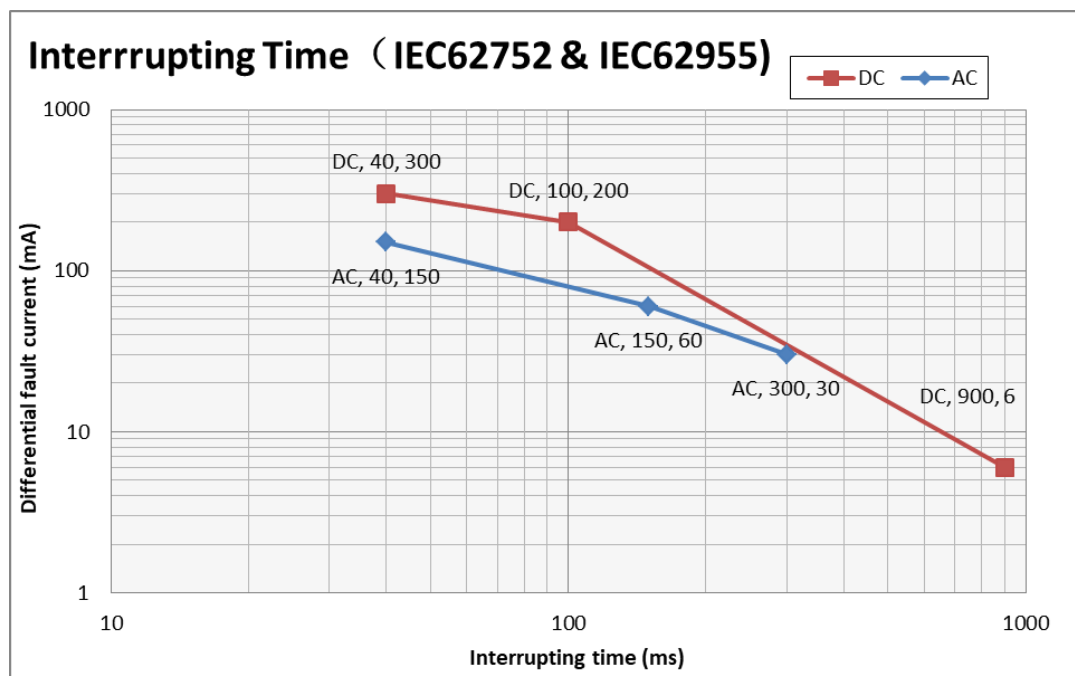
4. Application information

Self-check Function

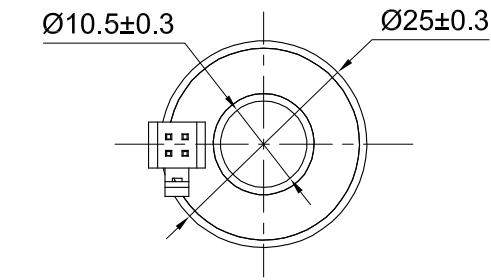


Time period	Duration(ms)	Operation	Explanation
T1	≥ 700	NC	The waiting time after the module is powered on
T2	$50 \leq T2 \leq 100$	Pull down Chk	Calibration level duration
T3	≈ 190	NC	Vout waiting time
T4	≈ 1200	NC	Vout high-level duration

Interrupting Time (IEC62752 & IEC62955)

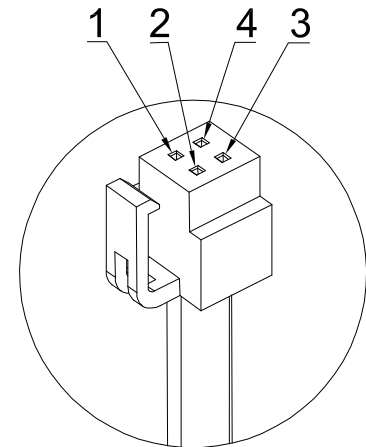
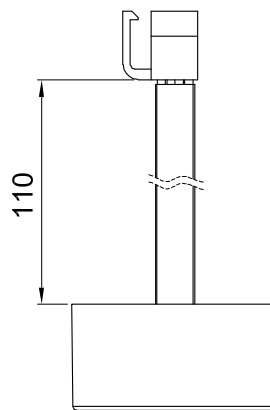
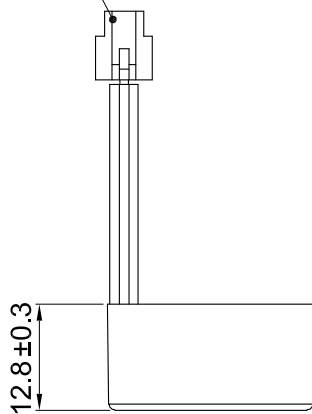


5. Dimensions (in mm)

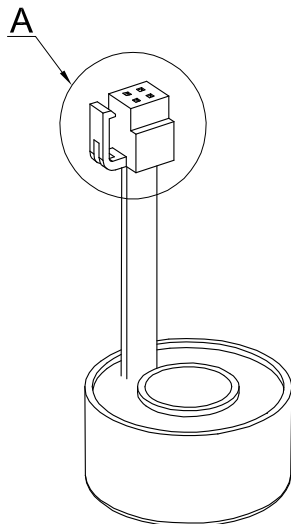


No.	Symbol
1	Vcc
2	Gnd
3	Vout
4	CHK

A2008H-2x2P
接插件型号



Detail-A 2:1



Material : Fit UL94V-0 & RoHS requirements ;

General tolerance : ± 0.5

Unit :mm

