

Customer Name	in.hub	Date Of Issue	29.11.2024
Description	Split Core Transformer	Sample Quantity	
Customer Part No.	SENS-CUR600	Customer Dwg. No.	
Part No.	HY73-H-155XQ57-0678H-IN	Sample No.	0678H

ACKNOWLEDGMENT SPECIFICATION FOR APPROVAL

Approved by	Checked by	Checked by	Engineering

CUSTOMER APPROVED

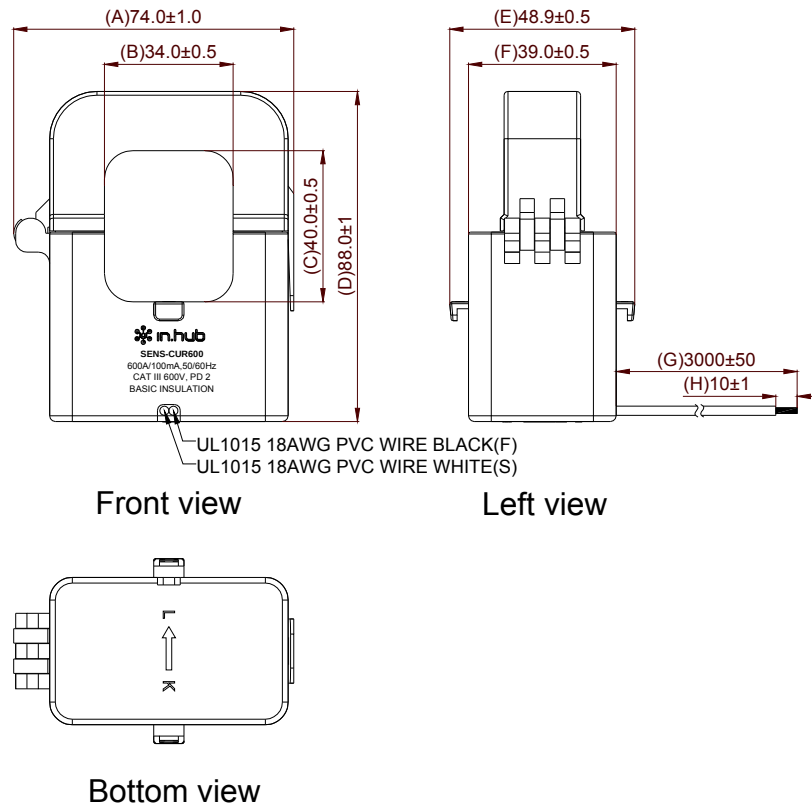
Approved by	Checked by	Acknowledged by



RoHS COMPLIANT

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Mechanical Dimensions in mm



Test Circuit

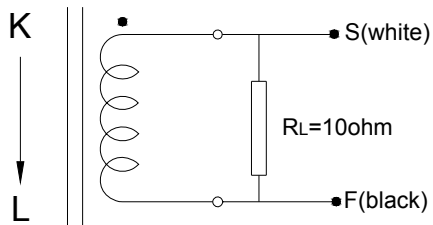


Photo:



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Electrical Specifications

Rated Primary Current (Amp.) 50Hz/60Hz	600A (30-720A max.)
Turns Ratio	Np:Ns=1:6000
Current Ratio	600A/100mA
D.C.Resistance at 20°C (Ω)	360max.
Accuracy* @Rb $\leq$ 10 Ω	0.5%
Operating Temperature Range	-40~85 °C
Storage Temperature Range	-45~90 °C
Dielectric Withstanding Voltage(Hi-pot)	4KV/1mA/1min
Insulation Resistance	DC500V/100M Ω min
Note	Insulated plastic case recognized according to UL 94-V0.
Conditions	Controlled Environment, Pollution Degree 2, Altitude up to 2000 m.

*Accuracy meets IEC/EN61869-2 & IEEE/ANSI C57.13.

Mechanical Specifications

CUP	PA66
Opening Angle	180 Degree
Output Terminal	UL1015 18AWG PVC WIRE (white&black) 105°C 600V
Approx. Weight	380g

Safety Standards

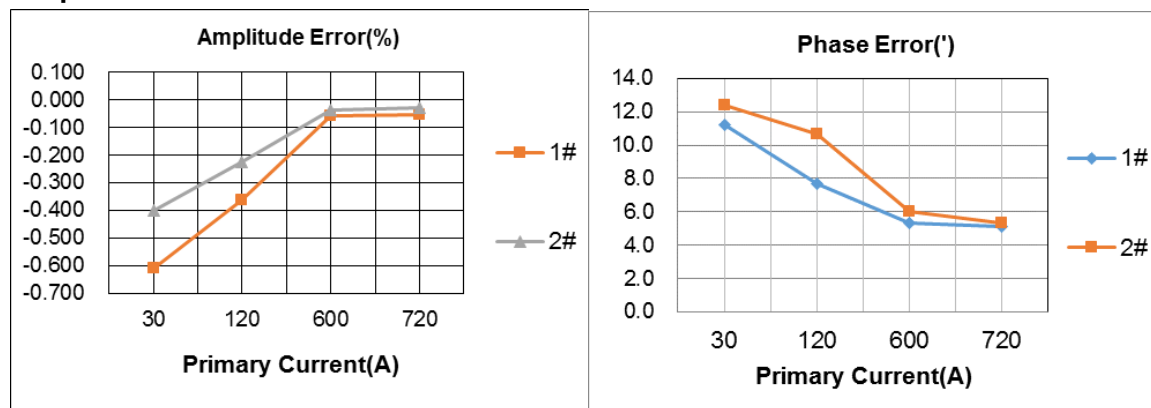
UL	UL2808-Non-Service Entrance, Basic Insulation CSA C22.2 No. 61010-1-12- CAT III 600V / CAT IV 250V
CE	EN 61869-1:2009 (LVD) EN 61869-6:2016 (LVD) EN 61326-1:2013 (EMC)
UKCA	BS EN 61869-1:2009 (EER) BS EN 61869-6:2016 (EER) BS EN 61326-1:2013 (EMC)

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Measuring Results ($T_A=25^{\circ}\text{C}$ @50Hz):

Current(A)		30	120	600	720	DCR(Ω)
SPEC.	$f(\%)$	± 1.5	± 0.75	± 0.5	± 0.5	360max.
	$\delta(^{\circ})$	± 90	± 45	± 30	± 30	
1#	$f(\%)$	-0.610	-0.364	-0.060	-0.053	316.3
	$\delta(^{\circ})$	11.2	7.7	5.3	5.1	
2#	$f(\%)$	-0.401	-0.226	-0.039	-0.027	312.9
	$\delta(^{\circ})$	12.4	10.7	6.0	5.3	
AVE	$f(\%)$	-0.506	-0.295	-0.050	-0.040	314.6
	$\delta(^{\circ})$	11.8	9.2	5.7	5.2	
MAX	$f(\%)$	-0.401	-0.226	-0.039	-0.027	316.3
	$\delta(^{\circ})$	12.4	10.7	6.0	5.3	
MIN	$f(\%)$	-0.610	-0.364	-0.060	-0.053	312.9
	$\delta(^{\circ})$	11.2	7.7	5.3	5.1	

Output Curve:



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The instructions for installation and removal of current transformers:

- 1) Always open or disconnect circuit from power-distribution system (or service) of building before installing of servicing current sensors
- 2) The current sensors may not be field installed in the wiring space of enclosures for switches or overcurrent devices if the area of all current sensors, conductors, splices, taps and equipment at any cross section of the wiring space does not exceed 75 percent of the cross-sectional area of that space
- 3) Restrict installation of current sensor in an area where it would block ventilation openings
- 4) Restrict installation of current sensor in area of breaker arc venting
- 5) Not suitable for Class 2 wiring methods.
- 6) Secure current sensor and route conductors so that the conductors do not directly contact live terminals or bus.
- 7) **WARNING** - To reduce the risk of electric shock, always open or disconnect circuit from power-distribution system (or service) of building before installing or servicing current sensors or metering equipment.
- 8) BASIC INSULATION current transformers shall be installed on insulated conductors only and maintained away from all live parts.

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Material List

No.	ITEM	Part No.	UL File No.	CCN	MATERIAL	NOTE
1	CORE	CRSR0640STHB1	/	/	20JG or B20JG	
2	HOUSING	HSCT28C0TH00	E41797	QMFZ2/8	PA66	
3	BOBBIN	BNCT28C0TH00	E107536	QMFZ2/8	E202G15	
4	WIRE	WR018NGS2U01	E201757	OBMW2	UEWN/U	
5	LEAD WIRE	LD183060BPXH0	/	AVLV2/8	UL1015 18AWG	105°C 600V
6	SOLDER	CHSB0001XD01	/	/	Sn-0.3Ag-0.7Cu	

NOTE:

1. Initial version (05.08.2024)
2. Lead wire length change from 1000mm to 3000mm (24.05.2024)
3. According to the customer's request, revised the logo, the lettering content on product and carton (29.11.2024)

We are here for you. Addresses and Contacts.

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