

Customer Name	in.hub	Date Of Issue	29.11.2024
Description	Split Core Transformer	Sample Quantity	
Customer Part No.	SENS-CUR120	Customer Dwg. No.	
Part No.	HY73-3-755XQ57-0677H-IN	Sample No.	0677H

ACKNOWLEDGMENT SPECIFICATION FOR APPROVAL

Approved by	Checked by	Checked by	Engineering

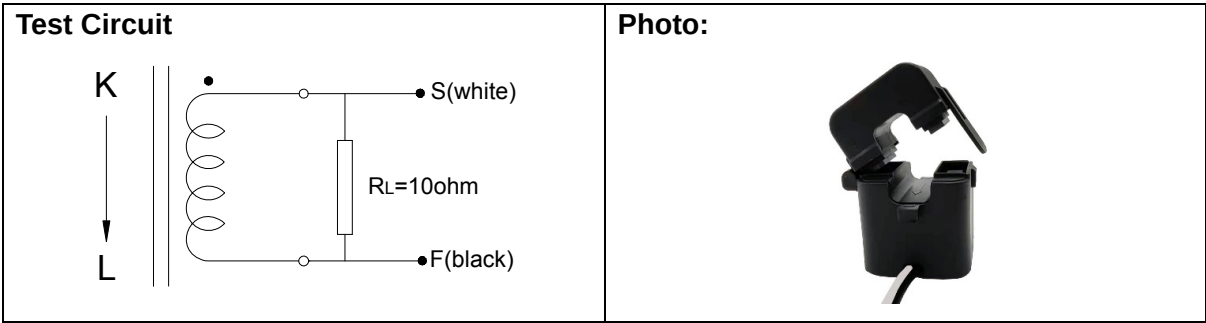
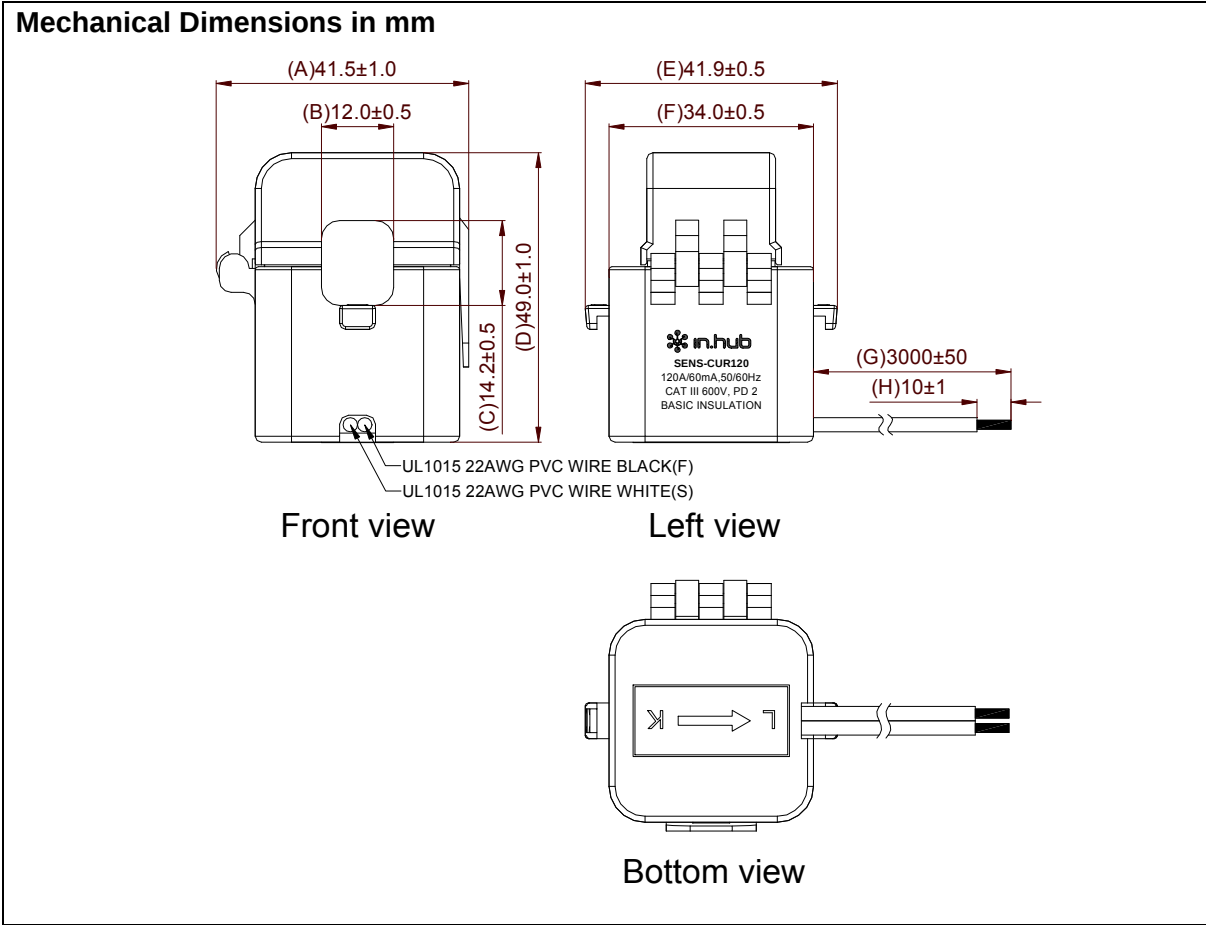
CUSTOMER APPROVED

Approved by	Checked by	Acknowledged by



RoHS COMPLIANT

Customer Part No.	SENS-CUR120	Date Of Issue	29.11.2024
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Electrical Specifications

Rated Primary Current (Amp.) 50Hz/60Hz	120A (6-144A max.)
Turns Ratio	Np:Ns=1:2000
Current Ratio	120A/60mA
D.C.Resistance at 20°C (Ω)	140max.
Accuracy* @Rb $\leq$ 10 Ω	1%
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 22AWG PVC WIRE (white&black) 105°C 600V
Approx. Weight	175g

Safety Standards Reference

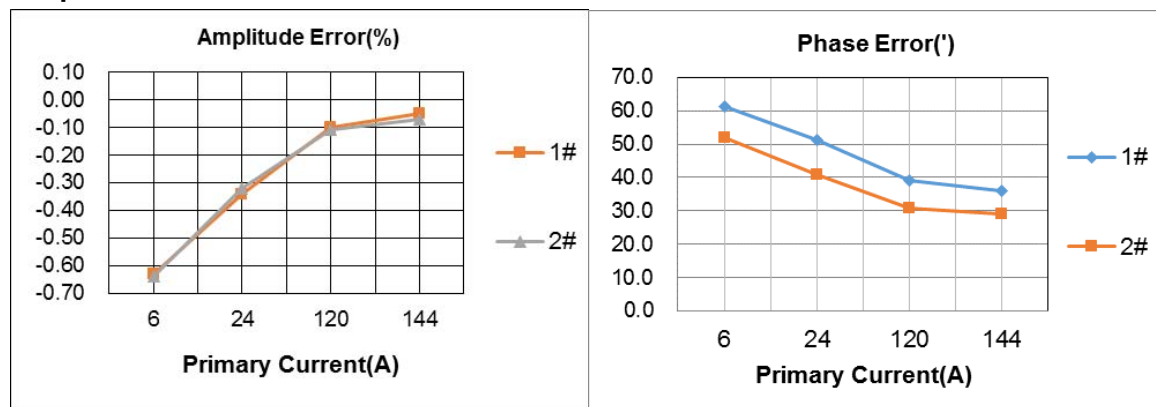
UL	UL2808-Non-Service Entrance, Basic Insulation CSA C22.2 No. 61010-1-12- CAT III 600V / CAT IV 250V
CE	EN 61869-1:2009 (LVD) EN 61869-6:2016 (LVD) EN 61326-1:2013 (EMC)
UKCA	BS EN 61869-1:2009 (EER) BS EN 61869-6:2016 (EER) BS EN 61326-1:2013 (EMC)

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

Current(A)		6	24	120	144	DCR(Ω)
SPEC.	$f(\%)$	± 3.0	± 1.5	± 1.0	± 1.0	140max.
	$\delta(^{\circ})$	± 180	± 90	± 60	± 60	
1#	$f(\%)$	-0.63	-0.34	-0.10	-0.05	113.1
	$\delta(^{\circ})$	61.3	51.3	39.3	36.1	
2#	$f(\%)$	-0.64	-0.32	-0.11	-0.07	113.7
	$\delta(^{\circ})$	52.1	40.9	30.9	29.0	
AVE	$f(\%)$	-0.64	-0.33	-0.11	-0.06	113.4
	$\delta(^{\circ})$	56.7	46.1	35.1	32.6	
MAX	$f(\%)$	-0.63	-0.32	-0.10	-0.05	113.7
	$\delta(^{\circ})$	61.3	51.3	39.3	36.1	
MIN	$f(\%)$	-0.64	-0.34	-0.11	-0.07	113.1
	$\delta(^{\circ})$	52.1	40.9	30.9	29.0	

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.

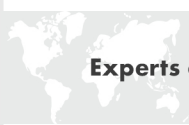
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Material List

No.	ITEM	Part No.	UL File No.	CCN	MATERIAL	NOTE
1	CORE	CRSR0264STHG1	/	/	20JG or B20JG	
2	HOUSING	HSCT2880TH00 HSCT2880TH01	E41797	QMFZ2/8	PA66	
3	BOBBIN	BNCT2880TH00	E107536	QMFZ2/8	E202G15	
4	WIRE	WR016NGS2U00	E201757	OBMW2	UEWN/U	
5	LEAD WIRE	LD223050BPJS7	/	AVLV2/8	UL1015 22AWG	105°C 600V
6	SOLDER	CHSB0001XD01	/	/	Sn-0.3Ag-0.7Cu	

NOTE:

1. Initial version (05.08.2024)
2. Lead wire length change from 1000 mm to 3000 mm (26.08.2024)
3. According to the customer's request, revised the logo, the lettering content on product and carton (03.12.2024)



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