

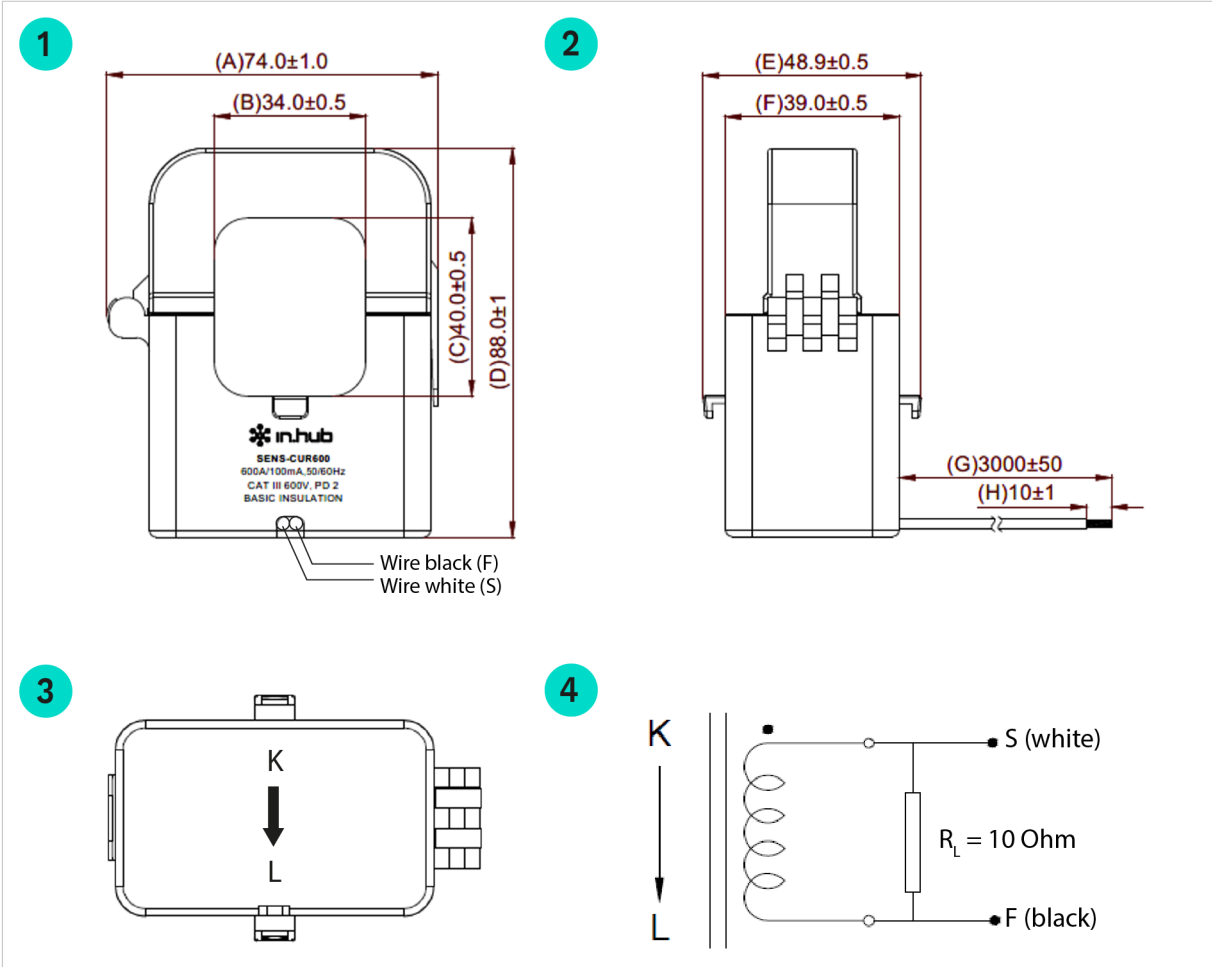


SENS-CUR600

Technical data sheet

Document version 1.0 | Released on:
27. March 2025

Schematic diagram



Dimensions of the SENS-CUR600 in mm

- 1 Front view

- 2 Side view

- 3 View from below

- 4 Schematic diagram for connecting the current sensor

Technical data

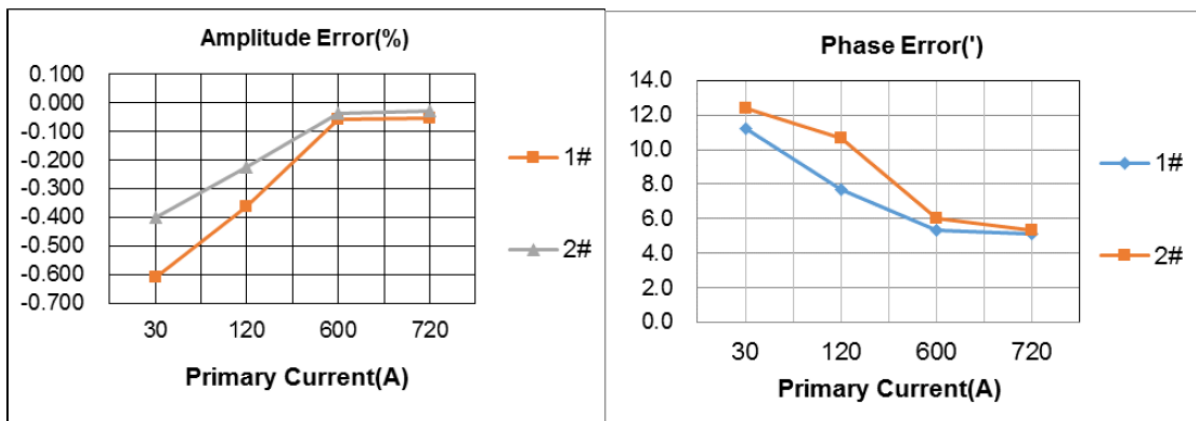
Electrical specifications	Values
Primary rated current (amps) 50 Hz / 60 Hz	600 A (30 - 720 A max.)
Turns ratio	1:6000
Transformation ratio	600 A / 100 mA
Resistance at 20°C (Ω)	360 max.
Accuracy at $R_b \leq 10 \Omega$	0.5%
Dielectric withstanding voltage	4 KV / 1 mA / 1 min
Protection category	600 V CAT III
Insulation resistance	DC500 V / 100 M Ω min
Housing	Insulated plastic housing, recognised according to UL 94-V0
Temperature range during operation	Operation: -40°C to 85°C
Temperature range during storage	Storage: -40°C to 90°C
Ambient conditions	Controlled environment, pollution degree 2, operating altitude up to max. 2,000 m

Mechanical specifications	Values
Housing	PA66
Opening angle	180°
Connecting cable	UL1015 22AWG PVC cable (white, black) 105°C, 600 V
Length of the connecting cable	3 m
Opening for the power cable	34×40 mm
Weight	330 g

Measurement results (TA = 25°C at 50 Hz)

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

Power curve



This document is available in electronic form in the download portal of in.hub. Printed versions or copies not explicitly provided by in.hub are deemed uncontrolled.

The original language of this document is German.

Made in Germany.

Service & Support: service@inhub.de | <https://community.inhub.de/>

in.hub Download portal: <https://download.inhub.de/>



in.hub GmbH
Technologie-Campus 1
DE-09126 Chemnitz

+49 371 335 655 00
info@inhub.de