

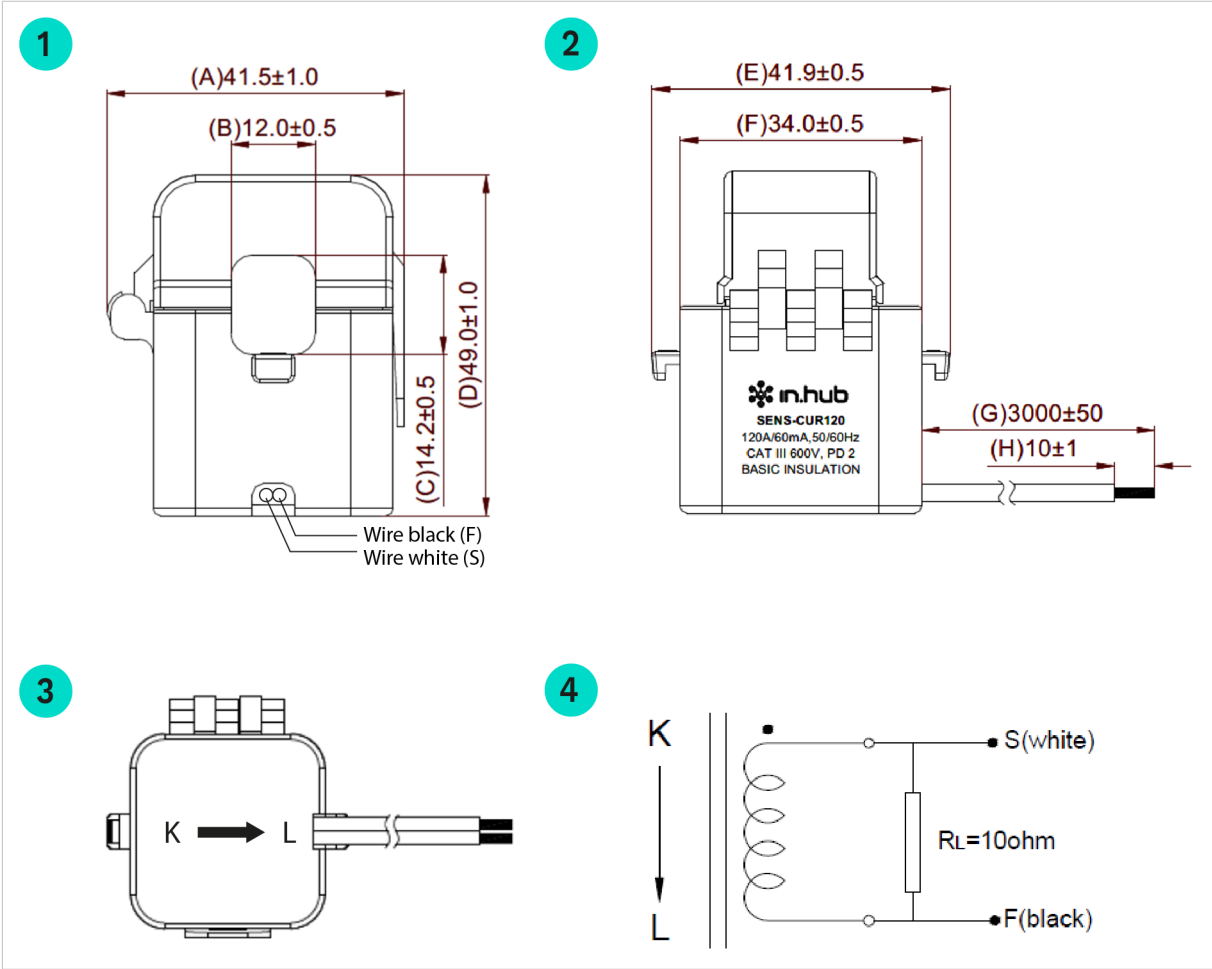


SENS-CUR120

Technical data sheet

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Schematic diagram



Dimensions of the SENS-CUR120 in mm

1	Front view
2	Side view
3	View from below
4	Schematic diagram for connecting the current sensor

Technical data

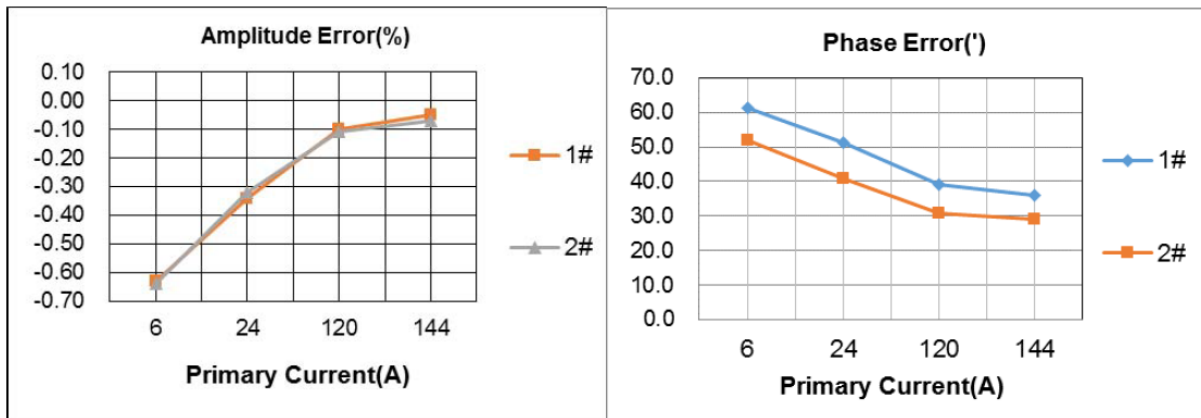
Electrical specifications	Values
Primary rated current (amps) 50 Hz / 60 Hz	120 A (6 - 144 A max.)
Turns ratio	1:2000
Transformation ratio	120 A / 60 mA
Resistance at 20°C (Ω)	140 max.
Accuracy at $R_b \leq 10 \Omega$	1%
Dielectric withstanding voltage	4 KV / 1 mA / 1 min
Protection category	600 V CAT 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	12x49 mm
Weight	135 g

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

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	

Power curve



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

+49 371 335 655 00
info@inhub.de