

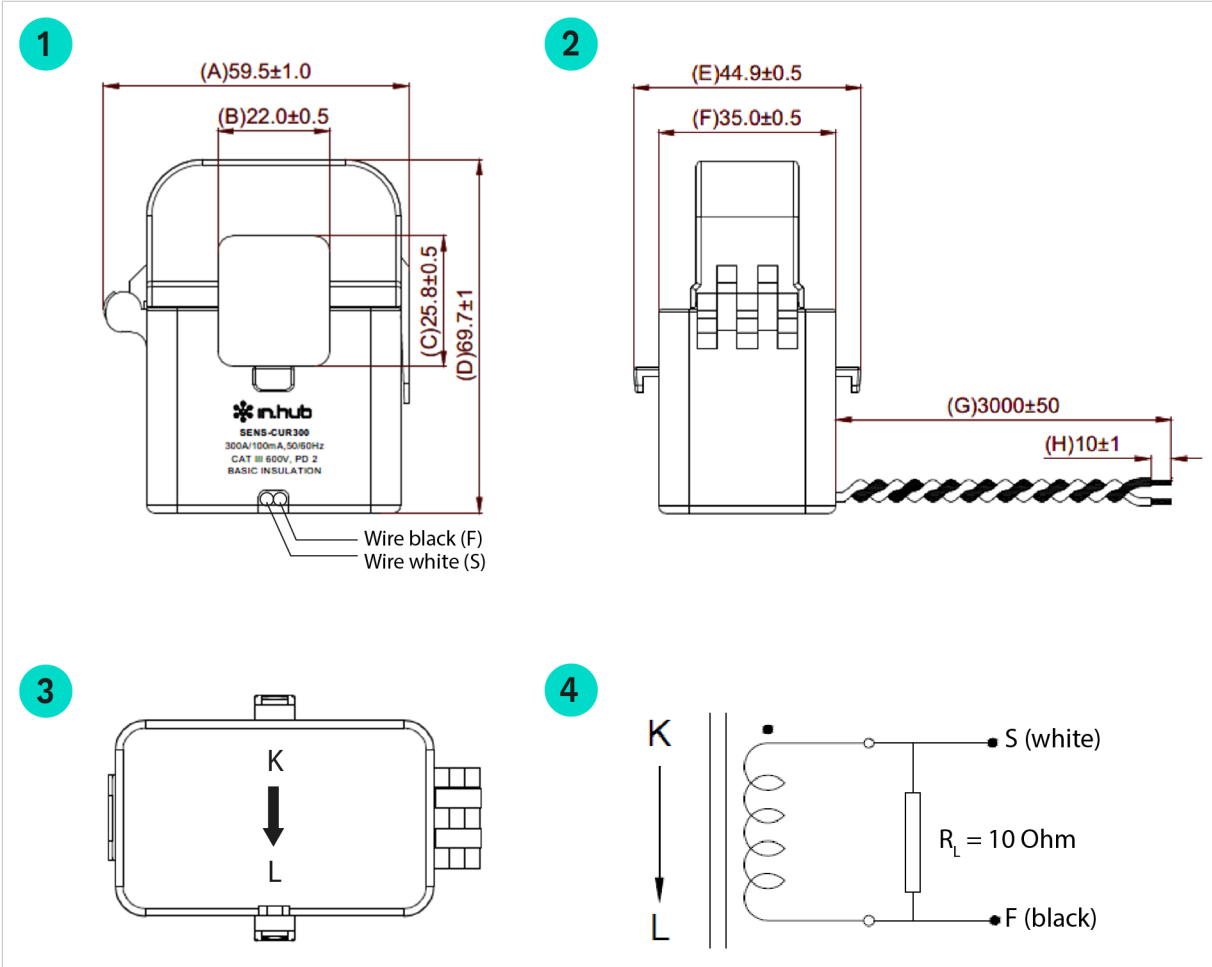


SENS-CUR300

Technical data sheet

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Schematic diagram



Dimensions of the SENS-CUR300 in mm

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

Technical data

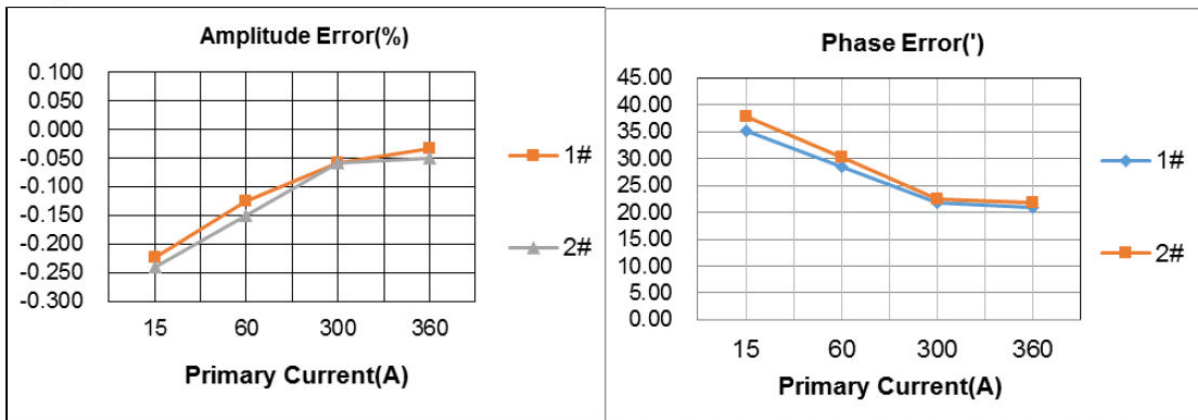
| Electrical specifications | Values |
|--|---|
| Primary rated current (amps) 50 Hz / 60 Hz | 300 A (15 - 360 A max.) |
| Turns ratio | 1:3000 |
| Transformation ratio | 300 A / 100 mA |
| Resistance at 20°C (Ω) | 95 max. |
| Accuracy at $R_b \leq 10 \Omega$ | 0.5% |
| Dielectric withstanding voltage | 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 | PC+ABS |
| 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 | 22×25.8 mm |
| Weight | 140 g |

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

| Current(A) | | 15 | 60 | 300 | 360 | DCR(Ω) |
|------------|--------------------|-----------|------------|-----------|-----------|-----------------|
| SPEC. | $f(\%)$ | ± 1.5 | ± 0.75 | ± 0.5 | ± 0.5 | 95max. |
| | $\delta(^{\circ})$ | ± 90 | ± 45 | ± 30 | ± 30 | |
| 1# | $f(\%)$ | -0.224 | -0.125 | -0.059 | -0.033 | 75.7 |
| | $\delta(^{\circ})$ | 35.28 | 28.51 | 21.85 | 20.95 | |
| 2# | $f(\%)$ | -0.240 | -0.151 | -0.058 | -0.049 | 75.5 |
| | $\delta(^{\circ})$ | 37.90 | 30.19 | 22.59 | 21.77 | |
| AVE | $f(\%)$ | -0.232 | -0.138 | -0.059 | -0.041 | 75.6 |
| | $\delta(^{\circ})$ | 36.59 | 29.35 | 22.22 | 21.36 | |
| MAX | $f(\%)$ | -0.224 | -0.125 | -0.058 | -0.033 | 75.7 |
| | $\delta(^{\circ})$ | 37.90 | 30.19 | 22.59 | 21.77 | |
| MIN | $f(\%)$ | -0.240 | -0.151 | -0.059 | -0.049 | 75.5 |
| | $\delta(^{\circ})$ | 35.28 | 28.51 | 21.85 | 20.95 | |

Power curve



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