

Revenue Grade, Split-Core AC Current Sensor SCT-125C

1.25" Opening with Ratings Up to 800 Amps

Magnelab's SCT-125C Series Current Sensors meets IEC 61869-2 revenue grade accuracy class 0.5 with unprecedented linearity and superior phase angle up to 800 Amps passing through the center conductor. Split-core transformers are ideal for installation on existing electrical wiring by snapping around the conductor. The SCT series have a self-locking mechanism. Custom outputs and other parameters are available at customer request.

SPECIFICATIONS

Rated Primary Current	Up to 800 Amp (or custom amperage)
Rated Output	0.333 V (AC) at rated current
Accuracy	±0.5% Class per IEC 61869-2, 0.6 ANSI C57.13
Phase angle	< 0.5° at rated current
Temperatures	UL Rated Ambient: 55°C Operating: -20°C to 105°C Storage: -40°C to 110°C

UL Relative Humidity Rating 85%

Leads	Length: 8 ft (2.4 m) 22 AWG twisted pair Rating: 600 V (UL 1015, UL 1213)
UL Max Voltage	600 V on Primary Conductor
RMS Voltage	3,800 V for AC insulation Test (1 min)
Rated Current Frequency	30-1,000 Hz
Certifications	UL 2808 Listed, CE, IEC 61869-2, RoHS Compliant
Weight	0.65 lbs (0.294 kg) with 8' leads



SCHEMATIC

PART NUMBER

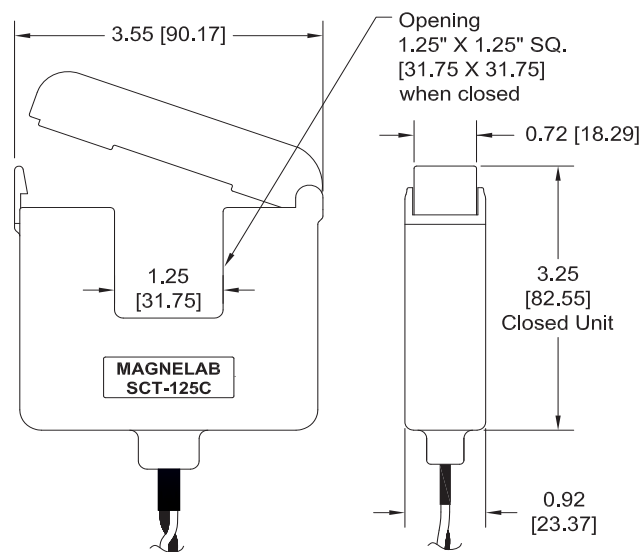
RATING

SCT-125C-000	No Burden Resistor *
SCT-125C-050	50 Amp
SCT-125C-070	70 Amp
SCT-125C-100	100 Amp
SCT-125C-150	150 Amp
SCT-125C-200	200 Amp
SCT-125C-250	250 Amp
SCT-125C-300	300 Amp
SCT-125C-400	400 Amp
SCT-125C-500	500 Amp
SCT-125C-600	600 Amp
SCT-125C-800	800 Amp

* Zener diode limits the output voltage to 22 V

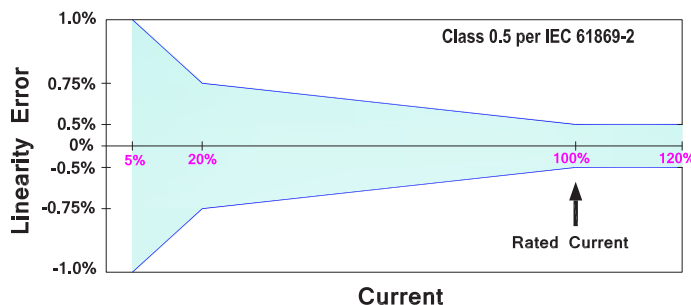
APPLICATIONS

- Submetering
- Revenue-grade Metering
- Smart Home Energy Management System
- Power Generation Monitoring
- Industrial Pump Monitoring
- Solar Consumption Monitoring
- EV Charging Stations
- Substation LV/MV/HV
- Lifecycle Management of Equipment



SCT-125C

Dimensions are in inches and millimeters



Current



US LISTED



ISO9001

**Magnelab reserves the right to implement modifications without prior notice