

## S042KU IP67CT



- Turn ratio 800:1
- Resolution 0.01mA
- Range 0.00mA~60A
- Both indoor and outdoor use
- φ42mm inside diameter

### DESCRIPTION

S042KU is a waterproof split-core current transformer that is suitable for the detection of AC leakage current, current, higher harmonics, phase, electric energy, power and power factor, etc. The S042KU is designed with multiple interlocking and overlapping magnetic cores, double shielded, split-core, and it uses the non-contact method to conduct measurements, it does not require disconnecting any wires. It provides an efficient and reliable solution for monitoring circuits.

### APPLICATION



The split-core current transformer is designed for electrical metering applications specifically designed to be installed around primary current-carrying conductors without disconnecting wires or breaking the monitoring circuit. Current transformers are the best solution for applications in energy measurement and management.

### SPECIFICATIONS

<b>Functions</b>	AC leakage current, current, high-order harmonic current, phase, electric energy, power, power factor detection
<b>Waterproof Grade</b>	IP67, suitable for indoor and outdoor use (patented technology)
<b>Measure Method</b>	Split-core CT, suitable for monitoring
<b>Inside Diameter</b>	φ42mm (wire ≤42mm can get through)
<b>Measurement Range</b>	0.00mA ~ 60AAC
<b>Resolution</b>	0.01mAAC
<b>Accuracy</b>	±0.5%FS (23 C ±2 C, below 70%RH, lead wire locates in the center of clamp jaw)
<b>Turn Ratio</b>	800:1
<b>Phase Error</b>	≤1° (50Hz/60Hz; 23 C ±2 C)
<b>Magnetic Core Material</b>	0.35mm thick Permalloy sheet, 13 pieces interlocked and overlapped
<b>Reference Load</b>	RL: 0 ~ 100mA≤500Ω; 0 ~ 1A≤50Ω; 0 ~ 10A≤5Ω; 0 ~ 60A≤0.5Ω
<b>Shielding</b>	Double shielding, suitable for complex interference environment
<b>Output Mode</b>	Current induction output can be converted to voltage by external load resistance (RL) for easy sampling
<b>Output Interface</b>	Three-core waterproof socket
<b>Output Lead</b>	Length: 1m, three-core waterproof socket, weld joints (S1 blue, S2 brown, black shielding)
<b>Shielding Technology</b>	Double shielded
<b>Wire Positioning</b>	The measured wire should be positioned in the center of the core
<b>Current Frequency</b>	45Hz ~ 75Hz (large current)
<b>Frequency Characteristic</b>	10Hz ~ 100kHz
<b>Line Voltage</b>	Below AC 1000V
<b>Dimension</b>	LWH 135mm×145mm×30mm

<b>Weight</b>	367.5g
<b>Ideal Working Conditions</b>	-20 °C ~ 50 °C ; below 80%RH
<b>Ideal Storage Conditions</b>	-10 °C ~ 60 °C ; below 70%RH
<b>Insulation Strength</b>	AC 2000V/RMS (between the bottom cover screw and the front housing)
<b>Safety Standards</b>	IEC1010-1, IEC1010-2-032, Pollution Class 2, CAT III (600V)

### ACCESSORIES & ORDER DATA

Description	Order Code	Description	Order Code
S-042KU IP67 Split Core Current Transformer, 1 pc	S-042KU	<b>Included accessories for S-042KU</b>	
		Package box, 1 pc	
		User Manual, Warranty card, Certificate of Conformity, 1 copy of each	

#### SALES OFFICE

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