

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

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

Weight	367.5g
Ideal Working Conditions	-20℃ ~ 50℃ ; below 80%RH
Ideal Storage Conditions	-10℃ ~ 60℃ ; below 70%RH
Insulation Strength	AC 2000V/RMS (between the bottom cover screw and the front housing)
Safety Standards	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	Included accessories for S-042KU	
 		Package box, 1 pc	
		User Manual, Warranty card,	
		Certificate of Conformity, 1 copy of each	