

S150

Large Jaw 150mm Cable Fault Location Supermalloy Current Transformer Clamp

The S150 ct clamp is a high performance AC Clamp on current transformer with excellent transformation and low phase shift. The high quality magnetic supermalloy core and uniform windings provide for accurate measurements up to 3000A AC/2000A AC/1000A AC/500A AC. The "ring type" jaw permits good magnetic conduction and cable positionings. Provide excellent RMS capabilities and reliable signal reproduction.

The S150 current transformer clamp is well suited for cable fault analysis and location and power quality applications where high accuracy and low phase shift along with wide frequency from 10Hz to 200kHz are important. Measurement range is 1mA to 3000A.

The S150 current transformer clamp is a general purpose 3000A AC Clamp current probe transformer designed for use with 4mm banana terminal & BNC, cable fault analysis and loggers instruments that have a current input. It has a 200:5 ... 1000:1 or 2000:1 ratio and output of 1mA/A or 1mV/A measured in the jaw. The S150 has an integral 2.5m or 5m lead terminated. The rounded jaw design on this ct clamp probe makes it well-suited for cable fault analysis applications where high precision and low phase shift and wide frequency.

Features

1. UL, CE CNAS mark;
2. Frequency 10-200kHz;
3. Using supermalloy core;
4. Holding wire diameter: $\phi 150\text{mm}$;
5. Conforms to EN 61010, 600V CAT III;
6. Industrial design & beautiful appearance;
7. Low phase shift for power measurement;
8. Measurement range of 1mA to 3000A AC;
9. High precision 0.1% for current measurement;
10. Improved ergonomic design & easy operation;
11. Transformation ratio: 100:1...3000:1, 200:5...2000:5, 3000:5;
12. Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters;



Application

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|------------------------------|------------------------------------|---|
| 1. Power meter; | 5. Power quality analyzer(PQA); | 9. Cable fault analysis and location; |
| 2. Large industrial loads; | 6. Power and harmonic meters; | 10. Measuring around cable bundles; |
| 3. Power load monitoring; | 7. Data logger/current recorder; | 11. Energy meter calibration equipment; |
| 4. Power quality monitoring; | 8. CT secondary current detection; | 12. Waveform analysis(oscilloscopes meter); |

Parameters

Electrical parameters	
Ratio	1000: 1, 200:5 or... 3000:5(customized)
Accuracy class	0.1%, 0.2%, 0.5%
Primary current	0 - 3000A AC
Secondary current	0-1A or 0 - 5A AC (customized)
Secondary voltage	0-1V , 0-5V AC (customized)
Max. Cont. Input current	3600A
Load capacity	≤20Ω, standard 4Ω
Over voltage category	CAT III 600V
Output signal (AC current)	500mA, 1A,2A,5A AC at nominal input current
Output signal (AC voltage)	1V, 2V, 5V, 10V AC at nominal input current
Frequency range	10Hz-200kHz
Dielectric strength	3KV 50Hz/60Hz at 1 minute
Temperature range	-40°C to +55°C
Output	2.5 meter cable with D01 connector or BNC
Max. voltage not insulated conductors	600 V
Standard	EN 61010-1, EN 61010-2-032, EN 61010-2-031 IEC60044-1, & IEC61869-2, 600V CAT III
Installation	clamp type
Output mode	lead output(2.5m, 5m or 10m)
Connector	BNC, 4mm banana, signal cable(2 cores),customized
Range version	100A, 200A, 400A, 500A, 1000A, 2000A, 3000A
Accuracy (3000A Range)	
0-10A	≤1%
10-100	≤0.5%
100-3000A	≤0.2%
Phase Shift(3000A Range)	
0-10A	≤1°
10-100	≤0.5°
100-3000A	≤0.2°
Mechanical parameters	
Dimensions (L x W x H) (mm)	199 x 281 x 28
Weight (g)	1600
Holding wire diameter (mm)	φ150
Max. jaw opening (mm)	150
Jaw color	Red & Grey
Material	PC+ABS, UL94 V0

Selection guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
S150-200	200A	240A	5A	40:1	2.5VA	0.5%
S150-300	300A	360A	5A	60:1	2.5VA	0.5%
S150-400	400A	480A	5A	80:1	2.5VA	0.5%
S150-500	500A	600A	5A	100:1	2.5VA	0.5%
S150-600	600A	720A	5A	120:1	2.5VA	0.5%
S150-800	800A	960A	5A	160:1	2.5VA	0.5%
S150-1000	1000A	1200A	5A	200:1	2.5VA	0.5%
S150-1500	1500A	1800A	5A	300:1	2.5VA	0.5%
S150-2000	2000A	2400A	5A	400:1	2.5VA	0.5%
S150-3000	3000A	3600A	5A	600:1	2.5VA	0.5%
S150A1-200	200A	240A	1A	200:1	customized	0.2%
S150A1-300	300A	360A	1A	300:1	customized	0.2%
S150A1-400	400A	480A	1A	400:1	customized	0.2%
S150A1-500	500A	600A	1A	500:1	customized	0.2%
S150A1-600	600A	720A	1A	600:1	customized	0.2%
S150A1-800	800A	960A	1A	800:1	customized	0.2%
S150A1-1000	1000A	1200A	1A	1000:1	customized	0.2%
S150A1-1500	1500A	1800A	1A	1500:1	customized	0.2%
S150A1-2000	2000A	2400A	1A	2000:1	customized	0.2%
S150A1-3000	3000A	3600A	1A	3000:1	customized	0.2%
S150A2-500	500A	600A	500mA	1000:1	customized	0.2%
S150A2-600	600A	720A	500mA	1200:1	customized	0.2%
S150A2-800	800A	960A	500mA	1500:1	customized	0.2%
S150A2-1000	1000A	1200A	500mA	2000:1	customized	0.2%
S150A3-800	800A	960A	400mA	2000:1	customized	0.2%
S150A3-1000	1000A	1200A	400mA	2500:1	customized	0.2%
S150A4-100	100A	120A	100mA	1000:1	customized	0.2%
S150A4-250	250A	300A	250mA	1000:1	customized	0.2%
S150A4-500	500A	600A	250mA	2000:1	customized	0.2%
S150A4-1000	1000A	1200A	250mA	4000:1	customized	0.2%

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
S150V5-100	100A	120A	1V	1000:1	customized	0.2%
S150V5-200	200A	240A	1V	1000:1	customized	0.2%
S150V5-300	300A	360A	1V	1000:1	customized	0.2%
S150V5-400	400A	480A	1V	1000:1	customized	0.2%
S150V5-500	500A	600A	1V	1000:1	customized	0.2%
S150V5-600	600A	720A	1V	1000:1	customized	0.2%
S150V5-800	800A	960A	1V	1000:1	customized	0.2%
S150V5-1000	1000A	1200A	1V	1000:1	customized	0.2%
S150V5-2000	2000A	2400A	2V	1000:1	customized	0.2%
S150V5-3000	3000A	3600A	3V	1000:1	customized	0.2%
S150V6-200	200A	240A	5V	1000:1	customized	0.2%
S150V6-300	300A	360A	5V	1000:1	customized	0.2%
S150V6-400	400A	480A	5V	1000:1	customized	0.2%
S150V6-500	500A	600A	5V	1000:1	customized	0.2%
S150V6-600	600A	720A	5V	1000:1	customized	0.2%
S150V6-800	800A	960A	5V	1000:1	customized	0.2%
S150V6-1000	1000A	1200A	5V	1000:1	customized	0.2%
S150V6-2000	2000A	2400A	5V	1000:1	customized	0.2%
S150V6-3000	3000A	3600A	5V	1000:1	customized	0.2%
S150V8-200	200A	240A	10V	1000:1	customized	0.2%
S150V8-300	300A	360A	10V	1000:1	customized	0.2%
S150V8-400	400A	480A	10V	1000:1	customized	0.2%
S150V8-500	500A	600A	10V	1000:1	customized	0.2%
S150V8-600	600A	720A	10V	1000:1	customized	0.2%
S150V8-800	800A	960A	10V	1000:1	customized	0.2%
S150V8-1000	1000A	1200A	10V	1000:1	customized	0.2%

Notes: Can be customized current probe according to user requirements!

Dimension

