

Q110

SQUARE JAW OPENING MAGNETIC COMPACT AC CURRENT CLAMP

The model Q110 clamp type current clamp is a high accuracy CT, the advanced design ensures enhanced linearity 0.2% and the jaw opening system provides enhanced safety. 110mm large jaw ensures it can measure up to 1500A AC current, Frequency range from 10Hz to 20KHz, ratio 1000:1, 2000:1 or 1000:5 etc. Improved ergonomic designed, Q110 clamp transformer suite for application on site. It can connect with phase detection analyzer, industrial control equipment, data recorder, oscilloscope, harmonic analyzer, electric power quality analyzer, high precision digital multi-meter & cable fault analysis etc. Conforms to EN 61010-2-032, 600V CAT III and IEC61869 & IEC60044-1 standard.

Features

1. UL, CE CNAS mark;
2. High content permalloy core;
3. Holding wire diameter: $\phi 110\text{mm}$;
4. Frequency 10Hz-20kHz Bandwidth;
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 1500A AC;
9. High precision 0.2% for current measurement;
10. Improved ergonomic design & easy operation;
11. Designed for recorders, loggers, oscilloscopes, power and harmonic meters;



Application

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|----------------------------|------------------------------------|-------------------------------------|
| 1. Oscilloscopes; | 7. Power load monitoring; | 13. Power and harmonic meters; |
| 2. Power meter; | 8. Data logging/recording; | 14. CT primary current detection; |
| 3. Digital multi-meter; | 9. Ground resistance tester; | 15. Multi-function energy meter; |
| 4. Cable fault analysis; | 10. Phase volt-ampere meter; | 16. Calibration instrument on site; |
| 5. Large industrial loads; | 11. Power quality monitoring; | 17. Measuring around cable bundles; |
| 6. Power quality analyzer; | 12. Energy meter tester (on site); | |

Parameters

Electrical parameters

Ratio	1000: 1 or 2000:1 (customized)
Accuracy class	0.2%, 0.5%, 1%
Primary current	0-500A, 0 - 1000A, 0 - 1500A AC
Secondary current	0-1A, 0 - 5A AC (customized)
Max. Cont. Input current	1200A
Load capacity	≤2.5VA or 20Ω
Over voltage category	CAT III 600V
Output signal (AC current)	500mA,1A,5A AC at nominal input current
Output signal (AC voltage)	333mV,500mV,1V,5V AC at nominal input current
Frequency range	10Hz-20KHz
Dielectric strength	3KV 50Hz/60Hz at 1 minute
Temperature range	-20°C to +55°C
Output	2.5 meter cable with D01 connector
Max. voltage not insulated conductors	720 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)
Connector	BNC, 4mm banana, signal cable(2 cores),customized

Mechanical parameters

Dimensions (L x W x H) (mm)	163 x 310 x 34
Weight (g)	900
Holding wire diameter (mm)	φ110
Max. jaw opening (mm)	110
Jaw color	Black
Material	PC+ABS, UL94 V0

Selection guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
Q110A5-200	200A	240A	5A	40:1	2.5VA	0.5%
Q110A5-300	300A	360A	5A	60:1	2.5VA	0.5%
Q110A5-400	400A	480A	5A	80:1	2.5VA	0.5%
Q110A5-500	500A	600A	5A	100:1	2.5VA	0.5%
Q110A5-600	600A	720A	5A	120:1	2.5VA	0.5%
Q110A5-800	800A	960A	5A	160:1	2.5VA	0.5%
Q110A5-1000	1000A	1200A	5A	200:1	2.5VA	0.5%
Q110A1-100	100A	120A	1A	100:1	customized	0.2%
Q110A1-200	200A	240A	1A	200:1	customized	0.2%
Q110A1-300	300A	360A	1A	300:1	customized	0.2%
Q110A1-400	400A	480A	1A	400:1	customized	0.2%
Q110A1-500	500A	600A	1A	500:1	customized	0.2%
Q110A1-600	600A	720A	1A	600:1	customized	0.2%
Q110A1-800	800A	960A	1A	800:1	customized	0.2%
Q110A1-1000	1000A	1200A	1A	1000:1	customized	0.2%
Q110A2-500	500A	600A	250mA	2000:1	customized	0.2%
Q110A2-1000	1000A	1200A	500mA	2000:1	customized	0.2%
Q110A3-500	500A	600A	200mA	2500:1	customized	0.2%
Q110A3-1000	1000A	1200A	400mA	2500:1	customized	0.2%
Q110A4-250	250A	300A	250mA	1000:1	customized	0.2%
Q110A4-500	500A	600A	500mA	1000:1	customized	0.2%
Q110A4-1000	1000A	1200A	250mA	4000:1	customized	0.2%
Q110V1-500	500A	600A	500mV	1000:1	customized	0.2%
Q110V1-1000	1000A	1200A	1V	1000:1	customized	0.2%
Q110V2-1000	1000A	1200A	5V	1000:1	customized	0.2%
Q110V3-1000	1000A	1200A	10V	1000:1	customized	0.2%

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