

Q20B

100A HIGH PERFORMANCE SPLIT CORE AC CURRENT CLAMP ON CTS

The model Q20B cheap 100A AC current clamp on CTs are best-in-class devices for use with power meters, power analyzers and high performance oscilloscopes. Its primary current range is 0-200A AC and secondary current range is 0-200mA, 0-200mV, 0-333mV or 0-2V AC. Adopts Permalloy core and CT double-layer shielding technology, These clamp on CTs deliver high-accuracy, high-sensitivity, versatility, and low phase shift. These qualities make these clamps an excellent choice for use in a wide range of power measurement applications including load surveys and demand metering. With high anti-interference ability, suitable for complex interference environment. Wide bandwidth 2M Hz, high precision 0.1%, according to EN 61010-1, EN 61010-2-032, IEC60044-1 Standard. is specifically designed to offer broad utility in a compact shape. Clamp on Current Transformers are the one-handed operating solution for temporary energy audits or long-term energy studies.

Features

1. UL, CE, CNAS mark;
2. Small, compact size;
3. With load capacity $\leq 20\Omega$;
4. With harmonic measurement;
5. Holding wire diameter: $\phi 20\text{mm}$;
6. Frequency 10Hz-2MHz Bandwidth;
7. Measurement range of 1mA to 120A AC;
8. Low phase shift for power measurement;
9. High content nickel metal permalloy core;
10. Conforms to EN 61010-2-032, 600V CAT III;
11. High precision 0.1% for current measurement;
12. Improved ergonomic design & easy operation;
13. Designed for DMMs, recorders, calibrators, power and harmonic meters;



Application

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|------------------------------------|-------------------------------|------------------------------------|
| 1. Ammeter; | 6. Multimeters; | 10. Power meter; |
| 2. Phase angle meter; | 7. Energy sub-meters; | 11. Oscilloscopes meter; |
| 3. Data logging/recording; | 8. Power load monitoring; | 12. Electricity energy meter; |
| 4. Power quality analyzer(PQA); | 9. Power and harmonic meters; | 13. Energy meter field calibrator; |
| 5. Measuring around cable bundles; | | |

Parameter

Electrical parameters	
Ratio	1000: 1, 2000:1 or 2500:1 (customized)
Accuracy class	0.1%, 0.2%, 0.5%
Primary current	0-5A, 0-10A, 0-20A, 0 - 100A, 0 - 200A AC
Secondary current	0 - 100mA AC, 0 - 200mA AC (customized)
Max. Cont. Input current	120A or 240A
Load capacity(Burden)	≤10Ω , Standard 4Ω
Over voltage category	CAT III 600V
Output signal (AC current)	From 0 to 200mA AC at nominal input current
Output signal (AC voltage)	From 0 to 200mV AC at nominal input current
Signal ratio	1mA/A, 1mV/A, 10mV/A, 100mV/A
Frequency range	10Hz-2MHz
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) or 5m, customized
Connector	BNC, 4mm banana, Audio plug,customized
Mechanical parameters	
Dimensions (L x W x H) (mm)	56 x 168 x 27
Weight (g)	350
Holding wire diameter (mm)	φ20
Max. jaw opening (mm)	20
Color	Gray
Material	PC+ABS+Polycarbonate, UL94 V0

Selection Guide

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
Q20B-10-1	10A	12A	10mA	1000:1	customized	0.1%
Q20B-10-2	10A	12A	5mA	2000:1	customized	0.1%
Q20B-10-3	10A	12A	4mA	2500:1	customized	0.1%
Q20B-20-1	20A	24A	20mA	1000:1	customized	0.1%
Q20B-20-2	20A	24A	10mA	2000:1	customized	0.1%
Q20B-20-3	20A	24A	8mA	2500:1	customized	0.1%
Q20B-100-1	100A	120A	100mA	1000:1	customized	0.1%
Q20B-100-2	100A	120A	50mA	2000:1	customized	0.1%
Q20B-100-3	100A	120A	40mA	2500:1	customized	0.1%
Q20B-200-1	200A	240A	200mA	1000:1	customized	0.1%
Q20B-200-2	200A	240A	100mA	2000:1	customized	0.1%
Q20B-200-3	200A	240A	80mA	2500:1	customized	0.1%
Q20B-V10-1	10A	50A	100mV	1000:1	customized	0.1%
Q20B-V10-2	10A	12A	1V	1000:1	customized	0.1%
Q20B-V10-3	10A	12A	5V	1000:1	customized	0.1%
Q20B-V20-1	20A	50A	200mV	1000:1	customized	0.1%
Q20B-V20-2	20A	24A	2V	1000:1	customized	0.1%
Q20B-V20-3	20A	24A	5V	1000:1	customized	0.1%
Q20B-V100-1	100A	120A	100mV	1000:1	customized	0.1%
Q20B-V100-2	100A	120A	1V	1000:1	customized	0.1%
Q20B-V100-3	100A	120A	5V	1000:1	customized	0.1%
Q20B-V200-1	200A	240A	200mV	1000:1	customized	0.1%
Q20B-V200-2	200A	240A	2V	1000:1	customized	0.1%
Q20B-V200-3	200A	240A	5V	1000:1	customized	0.1%
Q20B-5-12	5A	6A	5mA	1000:1	customized	0.2%
Q20B-5-22	5A	6A	2.5mA	2000:1	customized	0.2%
Q20B-5-32	5A	6A	2mA	2500:1	customized	0.2%
Q20B-10-12	10A	12A	10mA	1000:1	customized	0.2%
Q20B-10-22	10A	12A	5mA	2000:1	customized	0.2%
Q20B-10-32	10A	12A	4mA	2500:1	customized	0.2%
Q20B-20-12	20A	24A	20mA	1000:1	customized	0.2%
Q20B-20-22	20A	24A	10mA	2000:1	customized	0.2%
Q20B-20-23	20A	24A	8mA	2500:1	customized	0.2%
Q20B-100-12	100A	120A	100mA	1000:1	customized	0.2%
Q20B-100-22	100A	120A	50mA	2000:1	customized	0.2%
Q20B-100-32	100A	120A	40mA	2500:1	customized	0.2%

Model	Rate Current	Max Current	Secondary	Coil Ratio	Burden Resistance	Accuracy
Q20B-V5-12	5A	50A	50mV	1000:1	customized	0.2%
Q20B-V5-22	5A	6A	500mV	1000:1	customized	0.2%
Q20B-V5-32	5A	6A	1V	1000:1	customized	0.2%
Q20B-V10-12	10A	50A	100mV	1000:1	customized	0.2%
Q20B-V10-22	10A	12A	1V	1000:1	customized	0.2%
Q20B-V10-32	10A	12A	5V	1000:1	customized	0.2%
Q20B-V20-12	20A	50A	200mV	1000:1	customized	0.2%
Q20B-V20-22	20A	24A	2V	1000:1	customized	0.2%
Q20B-V20-32	20A	24A	5V	1000:1	customized	0.2%
Q20B-V100-12	100A	120A	100mV	1000:1	customized	0.2%
Q20B-V100-22	100A	120A	1V	1000:1	customized	0.2%
Q20B-V100-32	100A	120A	5V	1000:1	customized	0.2%
Q20B-V200-12	200A	240A	200mV	1000:1	customized	0.2%
Q20B-V200-22	200A	240A	2V	1000:1	customized	0.2%
Q20B-V200-32	200A	240A	5V	1000:1	customized	0.2%

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