

Q125B

CABLE 125MM 3000A SPLIT CORE SQUARE BUS BAR AC CURRENT PROBE

The Q125B split core current probe is a high performance AC Current clamp with excellent transformation and low phase shift. The high quality magnetic core and uniform windings provide for accurate measurements up to 1000A AC/2000A AC/3000A AC. The Round jaw permits 125mm cable positionings. Provide excellent TRMS capabilities and reliable signal reproduction, with harmonic measurement. It is widely applied in electricity, communication, meteorology, railway, oilfield, construction, measurement, scientific and research teaching unit, industrial and mining enterprises. EN 61010-1, EN 61010-2-032, IEC61869-2 Standard. This model Q125B has been used many for cable fault analyzer of instruments company.

Features

1. UL, CE CNAS mark;
2. Large jaw opening designed;
3. High content permalloy core;
4. Holding wire diameter: $\phi 125\text{mm}$;
5. Frequency 40Hz-20KHz Bandwidth;
6. Conforms to EN 61010, 600V CAT III;
7. Measurement range of 1A to 3600A AC;
8. Low phase shift for power measurement;
9. Industrial design & beautiful appearance;
10. High precision 0.2% for current measurement;
11. Improved ergonomic design & easy operation;
12. Output: 5mA AC/A AC, 2.5mA AC/A AC, 1.666mA AC/A AC;
13. Nominal range: 1 to 1000AAC, 1 to 2000AAC, 1 to 3000AAC;
14. Transformation ratio: 1000:5, 2000:5, 3000:5, 1000:1, 2000:1;
15. Designed for recorders, loggers, oscilloscopes, power and harmonic meters;



Application

- | | | |
|-------------------------|-----------------------------|--------------------------------------|
| 1. HVAC; | 7. Plant maintenance; | 13. Industrial maintenance; |
| 2. Power meter; | 8. Electrical Laboratory; | 14. Power quality monitoring; |
| 3. Oscilloscopes; | 9. Large industrial loads; | 15. Power and harmonic meters; |
| 4. Electrical utility; | 10. Data logging/recording; | 16. Calibration instrument on site; |
| 5. Cable fault tester; | 11. Power quality analyzer; | 17. Measuring around cable bundles; |
| 6. Digital multi-meter; | 12. Power load monitoring; | 18. Leakage current measuring meter; |

Parameters

Electrical parameters

Ratio	1000: 1 or 2000:1 (customized)
Accuracy class	0.2%, 0.5%, 1%
Primary current	0 - 1000A, 0 - 2000A, 0 - 3000A AC
Secondary current	0 - 1A, 0 - 2A, 0 - 5A AC (customized)
Max. Cont. Input current	3600A
Over voltage category	CAT III 600V
Output signal (AC current)	500mA, 1A, 2A, 5A AC at nominal input current
Output signal (AC voltage)	333mV, 500mV, 1V, 5V AC at nominal input current
Frequency range	40Hz-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)	180 x 319 x 35
Weight (g)	1100
Holding wire diameter (mm)	φ125
Max. jaw opening (mm)	125
Color	Black
Material	PC+ABS, UL94 V0

Selection guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
Q125BA5-200	200A	240A	5A	40:1	2.5VA	0.5%
Q125BA5-300	300A	360A	5A	60:1	2.5VA	0.5%
Q125BA5-400	400A	480A	5A	80:1	2.5VA	0.5%
Q125BA5-500	500A	600A	5A	100:1	2.5VA	0.5%
Q125BA5-600	600A	720A	5A	120:1	2.5VA	0.5%
Q125BA5-800	800A	960A	5A	160:1	2.5VA	0.5%
Q125BA5-1000	1000A	1200A	5A	200:1	2.5VA	0.5%
Q125BA5-1500	1500A	1800A	5A	300:1	2.5VA	0.5%
Q125BA5-2000	2000A	2400A	5A	400:1	2.5VA	0.5%
Q125BA5-3000	3000A	3600A	5A	600:1	2.5VA	0.5%
Q125BA1-100	100A	120A	1A	100:1	customized	0.2%
Q125BA1-200	200A	240A	1A	200:1	customized	0.2%
Q125BA1-300	300A	360A	1A	300:1	customized	0.2%
Q125BA1-400	400A	480A	1A	400:1	customized	0.2%
Q125BA1-500	500A	600A	1A	500:1	customized	0.2%
Q125BA1-600	600A	720A	1A	600:1	customized	0.2%
Q125BA1-800	800A	960A	1A	800:1	customized	0.2%
Q125BA1-1000	1000A	1200A	1A	1000:1	customized	0.2%
Q125BA1-2000	2000A	2400A	1A	2000:1	customized	0.2%
Q125BA1-3000	3000A	3600A	2A	1500:1	customized	0.2%
Q125BA2-500	500A	600A	250mA	2000:1	customized	0.2%
Q125BA2-1000	1000A	1200A	500mA	2000:1	customized	0.2%
Q125BA3-500	500A	600A	200mA	2500:1	customized	0.2%
Q125BA3-1000	1000A	1200A	400mA	2500:1	customized	0.2%
Q125BA4-250	250A	300A	250mA	1000:1	customized	0.2%
Q125BA4-500	500A	600A	500mA	1000:1	customized	0.2%
Q125BA4-1000	1000A	1200A	250mA	4000:1	customized	0.2%

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