

Q125

2000A/1A BUSBAR AC CLAMP ON CURRENT TRANSFORMER

The model Q125 2000A clamp on current transformer on measuring instrument can be used for a current vector for the copper bar or the power aluminum bus bar on-line detection. It has a 120mm * 50mm square hole, make it specially suitable for busbar current measurement. In this method, there is no need to break a circuit or to affect the isolation to measure the current. it can be applied for energy meter & power meter, Standard IEC/EN61869 & CE. easy installation, measurement 3000A big current value.

All of our clamp on current transformer are strictly comply IEC/EN 61010-2-032, IEC/EN 61010-2-031, IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018.

Features

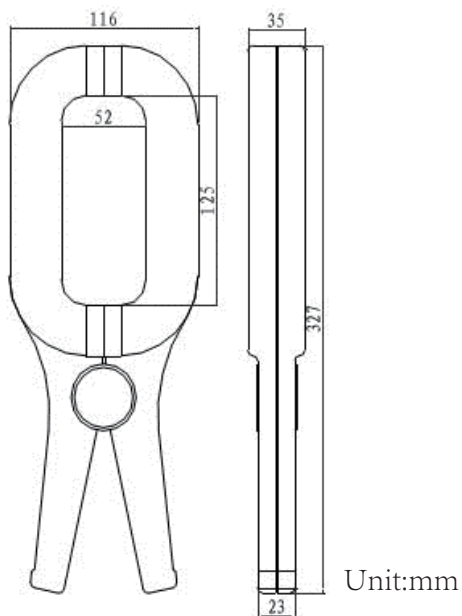
1. UL, CE CNAS mark;
2. Large jaw opening designed;
3. Conforms to EN 61010, 600V CAT III;
4. Frequency 40Hz-2000Hz Bandwidth;
5. Measurement range of 1A to 3600A AC;
6. Low phase shift for power measurement;
7. Precision 0.2% for current measurement;
8. Holding wire diameter: $\phi 120\text{mm} \times 50\text{mm}$;
9. Industrial design & beautiful appearance;
10. Transformation ratio: 1000:5, 2000:5, 3000:5;
11. Improved ergonomic design & easy operation;
12. As a high performance busbar current transformer;
13. Output: 5mA AC/A AC, 2.5mA AC/A AC, 1.666mA AC/A AC;
14. Nominal range: 1 to 1000AAC, 1 to 2000AAC, 1 to 3000AAC;
15. Designed for cable fault analysis, recorders, power and harmonic meters;
16. When less than 1A output, load capacity $\leq 20\Omega$; When 5A output, load 2.5VA;



Applications

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

Outline Drawing



Parameters

Technical parameters	
Ratio	400:1, 600:1, 1000:1, 2000:1 (customized)
Accuracy Class	0.2%, 0.5%, 1%
Primary current	0-1000A AC, 0-2000A AC, 0-3000A AC
Signal output	1mA/A, 5mA/A, 1mV/A, 5mV/A, 10mV/A
Secondary voltage	0-333mV, 0-500mV, 0-1V, 0-5V, 0-10V AC;
Secondary current	0-500mA, 0-1A, 0-2A or 0-5A AC
Max. Cont. Input current	2400A or 3600A
Load capacity	≤2.5VA or 20Ω
Over voltage category	CAT III 600V

Technical parameters - continued	
Frequency range	40Hz-2kHz
Dielectric strength	3KV 50Hz/60Hz at 1minute
Temperature range	-20°C to +55°C
Output	2.5 meter cable with D01 or BNC 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
Range	500A, 600A, 1000A, 2000A, 3000A optional
Output mode	Lead output (2.5m, 5m, 10m or customized)
Output signal	333mV, 500mV, 1V, 2V, 5V, 10V AC at nominal input current
Connector	BNC, 4mm banana, signal cable(2 cores), customized
Accuracy (1000A/2000A/3000A Range)	
0-30A	≤1%
30-300A	≤0.5%
300-3000A	≤0.2%
Phase Shift(1000A/2000A/3000A Range)	
0-30A	≤1°
30-300A	≤0.5°
300-3000A	≤0.2°
Mechanical parameters	
Dimensions (L x W x H) (mm)	116 x 327 x 35
Weight (g)	1200
Holding wire diameter (mm)	φ120 x 50
Max. jaw opening (mm)	50
Jaw color	White or Blue
Material	PC+ABS, UL94 V0

Clamp On Current Transformer Selection Model

Model	Current Range	Max Current	Secondary Output Signal	Ratio	Resistance	Accuracy
S50	0-1200A	1200A	250mA, 500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	1000:1, 2000:1,4000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
S120	0-3000A	3600A	250mA, 500mA, 1A, 2A, 5A, 333mV, 1V, 2V , 5V, 10V etc	600:1, 1000:1, 2000:1,4000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
P8	0-10A	20A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1, 4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
P18	0-200A	240A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1, 4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
P50	0-1000A	1200A	250mA, 500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	1000:1,2000:1, 2500:1,4000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
P110	0-1500A	1500A	250mA, 500mA, 1A, 2A, 5A, 333mV, 1V, 2V , 5V, 10V etc	200:1, 600:1, 1000:1, 2000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q8A1	20A	20A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q8A2	20A	20A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q13	100A	120A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q20A	200A	240A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q20B	200A	240A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q40	500A	600A	200mA, 250mA, 500mA, 333mV, 1V, 2V , 5V, 10V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q50A	1000A	1000A	250mA, 500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	1000:1,2000:1, 2500:1,4000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q70	1000A	1200A	250mA, 500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	200:1, 600:1, 1000:1, 2000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q110	1500A	1500A	250mA, 500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	200:1, 600:1, 1000:1, 2000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
Q125	2000A	2400A	500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	200:1, 600:1, 1000:1, 2000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.2%, 0.5%
Q125B	3000A	3600A	250mA, 500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	600:1, 1000:1, 2000:1,4000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.2%, 0.5%
Q150	3000A	3600A	500mA, 1A, 5A, 333mV, 1V, 2V , 5V, 10V etc	600:1, 1000:1, 2000:1,4000:1 etc	2.5VA, 1VA, 4Ω, 10Ω, 20Ω etc	0.2%, 0.5%
XQ13	100A	120A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
XQ20	200A	240A	2mA, 2.5mA, 5mA, 10mA,20mA, 333mV, 1V, 2V , 5V, 10V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%
HQ15	100A	120A	2mA, 2.5mA, 5mA, 10mA, 20mA, 333mV, 1V, 2V , 5V etc	1000:1,2000:1, 2500:1,4000:1 etc	4Ω, 10Ω, 20Ω etc	0.1%, 0.2%, 0.5%

Selection Guide

Model	Rate Current	Max Current	Secondary Current	Coil Ratio	Burden Resistance	Accuracy
Q150A5-1000	1000A	1200A	5A	200:1	2.5VA	0.5%
Q150A5-2000	2000A	2400A	5A	400:1	2.5VA	0.5%
Q125A5-500	500A	600A	5A	100:1	2.5VA	0.5%
Q125A5-600	600A	720A	5A	120:1	2.5VA	0.5%
Q125A5-800	800A	960A	5A	160:1	2.5VA	0.5%
Q125A5-1000	1000A	1200A	5A	200:1	2.5VA	0.5%
Q125A5-2000	2000A	2400A	5A	400:1	2.5VA	0.5%
Q125A5-3000	3000A	3600A	5A	600:1	2.5VA	0.5%
Q125A1-1000	1000A	1200A	1A	1000:1	2.5VA	0.2%
Q125A1-2000	2000A	2400A	1A	2000:1	2.5VA	0.2%
Q125A1-3000	3000A	3600A	1A	3000:1	2.5VA	0.2%
Q125A2-500	500A	600A	250mA	2000:1	customized	0.2%
Q125A2-1000	1000A	1200A	500mA	2000:1	customized	0.2%
Q125A2-2000	2000A	2400A	500mA	4000:1	customized	0.2%
Q125A3-1000	1000A	1200A	400mA	2500:1	customized	0.2%
Q125A3-2000	2000A	2400A	400mA	5000:1	customized	0.2%
Q125A4-1000	1000A	1200A	250mA	4000:1	customized	0.2%

Notes: Can be customized clamp on current transformers according to user requirements!