Q150

LARGE JAW 150MM 3000/5A SPLIT CORE CLAMP CURRENT TRANSFORMER

The model Q150 clamp current transformer can be used in large current situation and cooperate to cable fault tester and cable identification device, used for cable test work. It can even measure up to 3000A AC large current and output 0-5A AC current for other measuring or analyzing system. It can provide 0.5% accuracy class result, ratio 1000/5A, 2000/5A or 3000/5A. Suitable for power plants, factoris and mines to measure power load. It is widely applied in electricity, meteorology, communication, railway, oilfield, construction, measurement, scientific and research teaching unit, industrial and mining enterprises. This model Q150 clamp current transformer has been used many for cable fault analyzer of instruments company.

All of our clamp current transformer are strictly comply IEC/EN61010-2-032, 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.

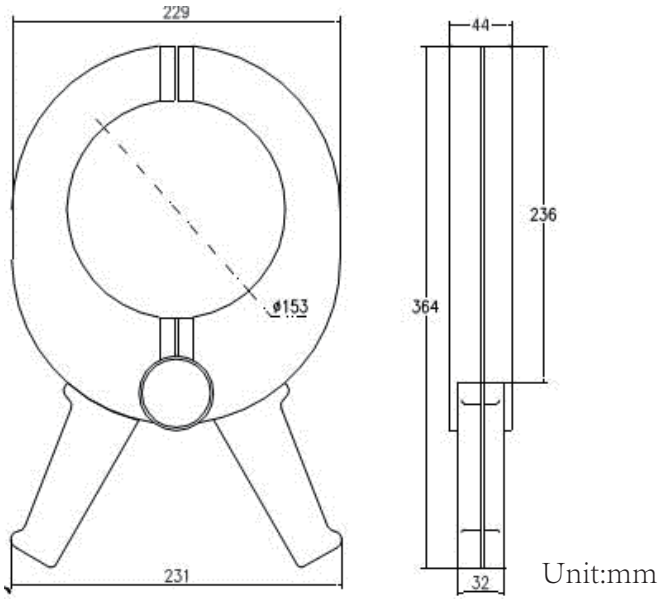
Features

1. UL, CE CNAS mark;
2. Large jaw opening designed;
3. Holding wire diameter: ϕ150mm;
4. Conforms to EN 61010, 600V CAT III;
5. Frequency 40Hz-2000Hz Bandwidth;
6. Measurement range of 1A to 3600A AC;
7. Low phase shift for power measurement;
8. Precision 0.5% for current measurement;
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 clamp current transformer;
13. Output:5mA AC/A AC, 2.5mA AC/A AC, 1.666mA AC/A AC;
14. Transformation ratio: 1000:5, 2000:5, 3000:5, 1000:1, 2000:1;
15. Nominal range: 1 to 1000AAC, 1 to 2000AAC, 1 to 3000AAC;
16. Designed for cable fault analysis, recorders, power and harmonic meters;
17. When less than 1A output, load capacity ≤20Ω; When 5A output, load 2.5VA;

Appliations

1. HVAC;
2. Oscilloscopes;
3. Power meter;
4. Energy meter;
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. Measuring around cable bundles;
17. Clamp type ground resistance tester;

Outline Drawing



Unit:mm

Parameters

Technical parameters	
Ratio	600:1, 1000:1, 2000:1, 3000:1 (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	3600A
Load capacity	≤2.5VA or 20Ω
Over voltage category	CAT Ⅲ 600V
Frequency range	40Hz-2kHz

Technical parameters - continued	
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 Range)	
0-30A	≤2%
30-300A	≤1%
300-3000A	≤0.5%
Phase Shift(1000A Range)	
0-30A	≤1°
30-300A	≤0.5°
300-3000A	≤0.2°
Mechanical parameters	
Dimensions (L x W x H) (mm)	229x364x 44
Weight (g)	1700
Holding wire diameter (mm)	φ150
Max. jaw opening (mm)	150
Jaw color	White
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%
Q150A5-3000	3000A	3600A	5A	600:1	2.5VA	0.5%
Q150A1-1000	1000A	1200A	1A	1000:1	2.5VA	0.5%
Q150A1-2000	2000A	2400A	1A	2000:1	2.5VA	0.5%
Q150A1-3000	3000A	3600A	1A	3000:1	2.5VA	0.5%
Q150A2-500	500A	600A	250mA	2000:1	customized	0.5%
Q150A2-1000	1000A	1200A	500mA	2000:1	customized	0.5%
Q150A3-500	500A	600A	200mA	2500:1	customized	0.5%
Q150A3-1000	1000A	1200A	400mA	2500:1	customized	0.5%
Q150A3-2000	2000A	2400A	800mA	2500:1	customized	0.5%
Q150A4-250	250A	300A	250mA	1000:1	customized	0.5%
Q150A4-500	500A	600A	500mA	1000:1	customized	0.5%
Q150A4-1000	1000A	1200A	250mA	4000:1	customized	0.5%
Q150A4-2000	2000A	2400A	500mA	4000:1	customized	0.5%

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