

FU120

LOW VOLTAGE 3000A BUS BAR TYPE SPLIT TYPE CURRENT TRANSFORMER

The Model FU120 is a bus bar split core current transformer. Busbar Type Split Core Current Transformer also called Split Core Current Transformer or Openable current Transformer. It mainly applies for electric system renovation project with easy installation, no need to remove primary busbar, can also operate when power on without affect clients, normal electricity utilization. It can help clients renovate projects and improve efficiency to save human, material and financial resources. This series can apply with relay device, measuring and metering devices.

All of our current transformers are strictly comply IEC60044-1, IEC 61869-2, NTC 2205, GB1208-2006, GB20840.2-2013, ANSI/IEEE C57.13.

Features

1. Ratio could be customized;
2. Bus bar type split core design;
3. High precision 0.2%, 0.5s, 0.5%;
4. Measurement range 0-4000A AC;
5. Easy install or remove with electricity;
6. Secondary output 5A, 1A, 333mV, 1V, 2V, 5V....;
7. Various size to meet different busbar installation;
8. Holding wire Size:120×30, 120×130mm... Can be customized;
9. IEC60044-1, IEC 61869-2, , NTC 2205, GB1208-2006, ANSI/IEEE C57.13;



Application

1. Load Center;
2. Various power monitoring systems;
3. Energy meter;
4. In-Factory Display In-Home Display;
5. Power Meter;
6. Energy meter current measurement;
7. MV switchgears;
8. Power Measurement Device For PLC;
9. Distribution boxes;
10. Sub-Metering Accurate Measurement;
11. Digital Fault Recorders;
12. Inverters for Solar & Wind Turbine Systems;
13. Three Phase Balance Control;
14. HEMS (Home Energy Management System);
15. Power quality analyzer meter;
16. BEMS (Building Energy Management System);
17. Smart Grid Application Features;
18. Data Loggers to analyze Building & Machinery Performance;

Parameters

Technical parameters

Standards	IEC/EN60044-1 & IEC61010-1 & IEC61869-2&ANSI C57.13
Ratio	60: 1, 120:1, 3000/5A or 1000:1 , customized
Nominal input current (Primary current)	300A/400A/500A/600A/750A/800A/1000A/1200A/1250A/1500A/2000A/2500A/3000A/3200A/4000A
Overload withstand	1.2 times rated current continuously
Accuracy	0.2%, 0.5 %, 1%
System Voltage	720V(0.72kV)
Output signal	50mA-500mA, 1A, 5A AC optional 333mV AC or 100mV-2V optional
Burden	2.5VA-10VA
Frequency range	40 Hz...2000 Hz
Dielectric strength	3 KV 50Hz/60Hz at 1 minute
Output	K1, K2 or S1, S2
Protection Level	3.0V0-P
Installation Category	CAT IV 600V AC IEC/EN 61010-1
Internal structure	Busbar type Design
Max. jaw opening	120 x 130mm, 120 x 30mm
Material	Silicon steel sheets+Enameled wire+ABS+ 94V-0
Color	White and grey

Mechanical parameters

Dimensions (W×D×H) (mm)	166 x 110 x 49, 166 x 208 x 49
Weight (kg)	1.2, 1.7

Operating conditions

Operating temperature	-25 to +55°C
Relative Humidity	0-85% non-condensing
Using Environment	Indoor
Altitude	<3000 meters
Condition	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

Technical Data

Type	FU120		
Purpose	Measuring current transformer		
Ratio	Accuracy class		
I_1/I_2	0.2	0.5	1
500A/333mV		YES	YES
1000A/333mV		YES	YES
2000A/333mV		YES	YES
3000A/333mV		YES	YES
4000A/333mV		YES	YES
500A/1V	YES	YES	YES
500A/2V	YES	YES	YES
500A/5V	YES	YES	YES
1000A/1V	YES	YES	YES
1000A/2V	YES	YES	YES
1000A/5V	YES	YES	YES
2000A/1V	YES	YES	YES
2000A/2V	YES	YES	YES
2000A/5V	YES	YES	YES
3000A/1V	YES	YES	YES
3000A/2V	YES	YES	YES
3000A/5V	YES	YES	YES
4000A/1V	YES	YES	YES
4000A/2V	YES	YES	YES
4000A/5V	YES	YES	YES
1000A/1A	YES	YES	YES
2000A/1A	YES	YES	YES
3000A/1A	YES	YES	YES
4000A/1A	YES	YES	YES
300A/5A		YES	YES
500A/5A		YES	YES
600A/5A		YES	YES
800A/5A		YES	YES
1000A/5A		YES	YES
1500A/5A		YES	YES
2000A/5A		YES	YES
2500A/5A		YES	YES
3000A/5A		YES	YES
4000A/5A		YES	YES

Selection Guide

Model	Primary rated current	Rated load	Secondary output	Aperture (mm)	Description (mm)	Weight (kg)
FU-16	5-200A	≤10 Ohm	333mV,1V, 5V,100mA	φ16	38 x 55 x 18	0.06
FU-32	100-600A	≤10VA	333mV,1V, 5V, 1A, 5A	φ32	110 x 130 x 41	0.7
FU-36	100-600A	≤2.5VA	333mV,1V, 5V, 1A, 5A	φ10, φ16, φ24, φ36	26 x 43 x 27 31 x 50 x 30 43 x 73 x 39 60 x 89 x 43	0.1, 0.12, 0.2, 0.35
FU-80	100-1200A	≤5VA	333mV,1V, 5V, 1A, 5A	φ30, φ55, φ80	88 x 129 x 28 108 x 155 x 28 138 x 193 x 28	0.4, 0.55, 0.6
FU-100	300-3000A	≤10VA	333mV,1V, 5V, 1A, 5A	φ100	170 x 184.5 x 41	1
FU120	200-4000A	≤10VA	333mV,1V, 5V, 1A, 5A	120 x 130, 120 x 30	166 x 110 x 49 166 x 208 x 49	1.2, 1.7
FU160	500-5000A	≤20VA	1A,5A	160 x 80	144 x 227 x 54	2.8