

FU120

Low Voltage Bus Bar Type Split Core 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 lower voltage split type current transformer can apply with relay device, measuring and metering devices.

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

Parameters

Technical parameters	
Standards	IEC/EN60044-1 & IEC61010-1 & IEC61869-2&ANSI C57.13
Accuracy	0.2%, 0.5 %, 1%
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
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 window	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	300-4000A	≤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	300-5000A	≤20VA	1A,5A	160 x 80	144 x 227 x 54	2.8