DSSF3/DTSF3 Three-phase Multi-rate Static Energy Meter

Summary

DSSF3/DTSF3 three-phase multi-rate energy meter applies to measure 3-phase active energy corresponding to different tariffs. It realizes data exchange via RS485 network or by HHU, and the data transmission protocol conforms to IEC1107. This meter can measure in different time section, set the daily automatic data revert, program and write the data for the mobile and PC, LCD display. The meter has the characteristics of high accuracy, good stability, wide-load, low power consumption, strong anti-interference ability, etc.

Technical specification

1. Electric condition

    Accuracy class: 1.0;

    Normal working voltage: 0.9Un~1.1Un;

    Limit working voltage: 0.7Un~1.15Un;

    Power consumption of voltage circuit: power consumption of each phase in voltage circuit≤2.0W and 5VA;

    Power consumption of current circuit: ≤1VA;

    Start-up current: 0.004Ib;

    Shunt running: voltage line adding115%Un, when the circuit current is 0, the output impulse is less than 1.

2. Climatic condition

    Normal working voltage: -25℃~+55℃;

    Limit working temperature: -30℃~+70℃;

    Stockpile and transportation temperature: -35℃~+70℃;

    Relative humidity: annual average＜80%.

3. Tariff working parameter

    Clock accuracy: ≤0.5Id (23℃);

    Batteries capacity: ≥1200mAh;

    After power cut data save time: ≥10years;

    Tariff numbers: 4, section number: 10, measurement range: 0~999999.99kWh;

    Communication baud rate: RS485□1200bps~9600bps;

4. Conformed standards: IEC62053; GB/T17215-2002; DL/T614-1997;

5. Life: 10 years.

Model

Model	Reference voltage(V)	Rated frequency (Hz)	Nominal current(A)	Meter constant(imp/kwh)
Three phase four wire DTSF3	3×220(240)/380/(415)	50/60	1.5(6),2.5(10), 5(20),10(40), 15(60) 20(80), 30(100)	As nameplate
	3×57.5(63.5)/(110)	50/60		
Three phase three wire DSSF3	3×100/110	50/60		
	3×380/415	50/60		

Product function

1. Measurement function

    Register positive, reverse of active and reactive energy, and store data;

    Register negative and active energy, and store data;

    Register positive, negative active and reactive maximum demand with its occurred time, and store data.

2. Multi-tariff function

    Programmed with 4 tariffs, 10 daily time section and 2 time-zones.

3. Display function

   LCD display, 6 integers, 2 decimal fraction;

   Automatic rolling display, parameters and time, sequence can be randomly set;

   Button display function, displaying content and sequence can be randomly set;

   Read random item data by remote device.

4. Communication function

   RS485 interface and infrared communication interface;

   Communication stipulations conforms to IEC1107 & DL/T645-1997 or other request.

5. Output function

   Active impulse test output interface;

   Clock output function.
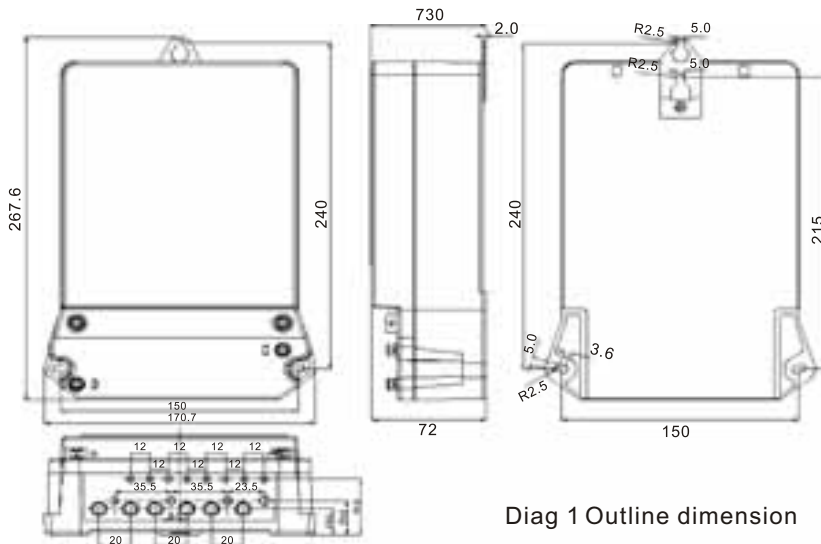
6. Event record function

   Real time test three phase (A/B/C) voltage;

   Power-off record of lately 1~9 times; have real time power register function;

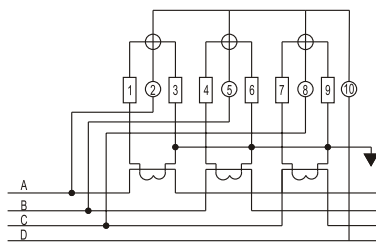   Event record functions like no voltage, programming, broadcast time checkout etc.

7. Other function

   Power-off key-press arouse function;

   Programming forbid, data reset function;

   Register 1-12 months electricity function (not available of display but by reading) ;
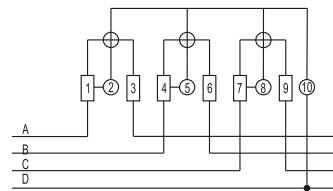
   Freeze data at transfer point between time sections.

Outline dimension and wiring

Diag 1 Outline dimension

CT type(3 × 57.7/100V ≤ 3 × 1.5(6)A)   Direct type (3 × 57.7/100V ≤ 3 × 1.5(6)A)