

DSSY3/DTSY3 Three-phase Prepayment Static Energy Meter

Summary

DSSY3/DTSY3 series three-phase pre-payment static energy meter is improved and produced on the bases of the static three-phase active watt-hour meter. It has multiple functions: electrical energy measuring and user's information management and so on. The product is an ideal product to solve problems in electrical energy fee in arrears and anti-tampering, as well as commercializing electrical energy and adjusting load in the electric network.



Technical specification

- Electric performance:
 - Accuracy class: 1.0, 2.0;
 - Normal working voltage: 0.9~1.1 reference voltage;
 - Limit working voltage: 0.8~1.15 reference voltage;
 - Insulation voltage endurance: $\geq 2000\text{VAC}$;
 - Power consumption: $\leq 6\text{W}$ and 10VA ;
 - Start-up: Under the condition of reference voltage, reference frequency and power factor is 1, when load current is 0.4%lb (class 1), 0.5% (class 2), energy meter start up and accumulate count.
 - Shunt running: When add 115% reference voltage to voltage circuit, no current on current circuit, energy indicator light does not shine, energy pulse output.
- Ambient condition
 - Normal working temperature: $-30^{\circ}\text{C}\sim+55^{\circ}\text{C}$;
 - Limit working temperature: $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$;
 - Stockpile and transportation temperature: $-45^{\circ}\text{C}\sim+70^{\circ}\text{C}$;
 - Relative humidity: annual average $< 80\%$.
- Conformed standards: IEC62053 & IEC62055; GB/T 17215-2002; GB/T18460-2001.
- Life: 10 years.

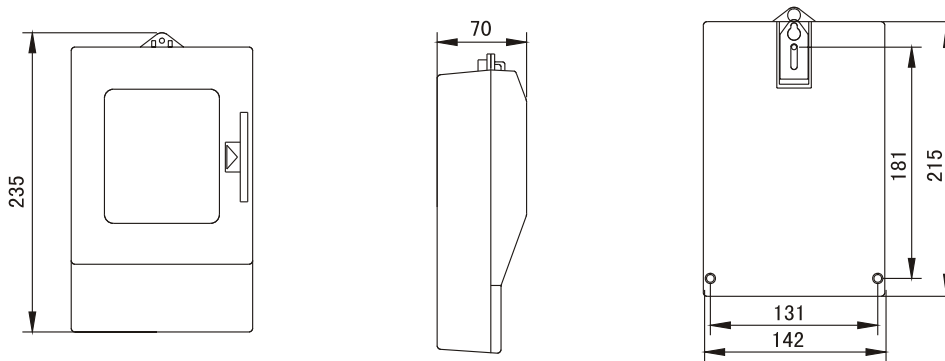
Model

Model	Reference voltage(V)	Rated frequency(Hz)	Nominal current(A)	Meter constant (imp/kwh)
Three phase four wire DTSY3	$3 \times 220(240)/380(415)$	50/60	1.5(6),2.5(10), 5(20),10(40), 15(60),20(80), 30(100)	As nameplate
	$3 \times 57.5(63.5)/110$	50/60		
Three phase three wire DSSY3	$3 \times 100/110$	50/60		
	$3 \times 380/415$	50/60		

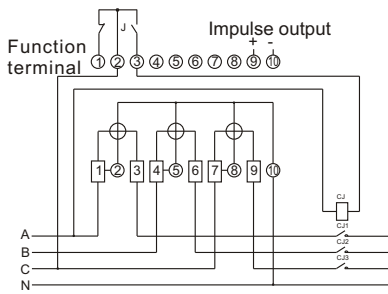
Basic function

- Dual-direction measurement function: measure accurately power on both directions, accumulate power amount in single direction, anti-theft function.
- Adopt photoelectric isolation insulation technical to output impulse signal, LED/LCD display on electricity use.
- Payment before use cut off power when the pre-paid amount is used off.
- Digital rolling display with the used amount and residual amount.
- Memory function: the lost data due to power-off recovers when power is reconnected.
- Warning function: remind the client to purchase when pre-purchased power is lower than certain amount.
- The product adopts full solid integrated circuit technical protection data, the data can be saved for over 20 years without battery power.

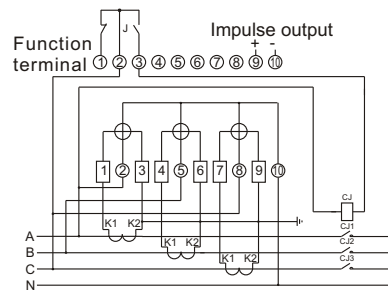
Outline dimension and Wiring diagram



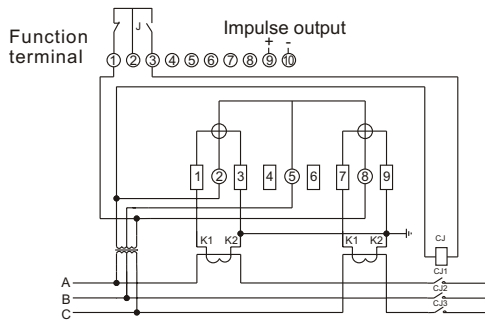
Diag 1. Outline dimension



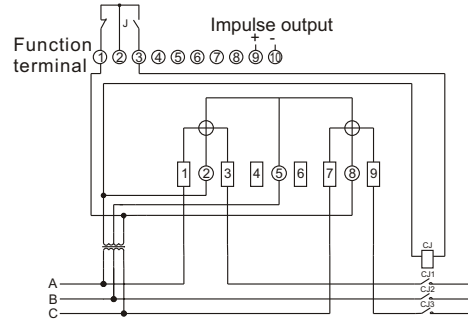
Direct type



CT type



CT type



Direct type