

DTS353

THREE-PHASE FOUR WIRE DIN RAIL ACTIVE METER

INSTRUCTION

I. Principium

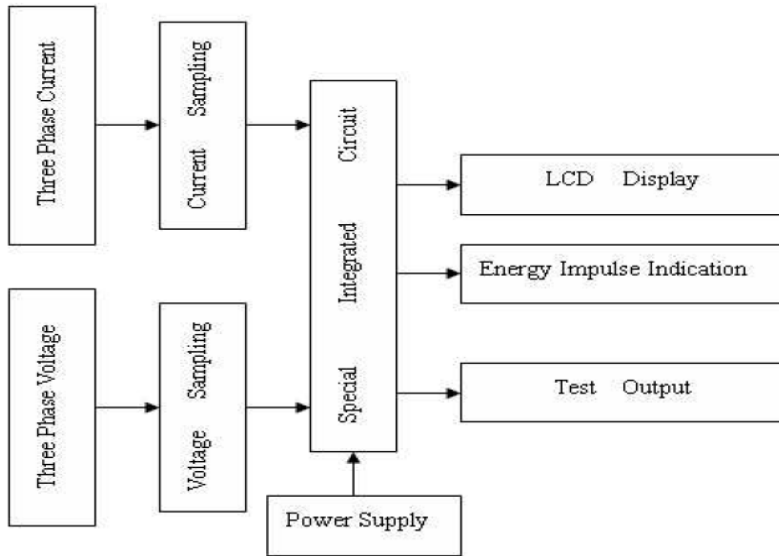


Figure 1

Showing as figure 1, sending the sampling current and sampling voltage into the special IC, through the inner cushion amplifier, deliver to multiplying unit, multiply the voltage signal and current signal. Then through A/D conversion, convert the logic signal to the digital signal, then through frequency dividing circuit and drive circuit, use impulse output of electricity quantity signal for the drive impulse and electro- Indexes.

II. Technical specification

1. LCD backlite display: optional

2. LCD display without electricity: optional

3. Specification

Type	Class	Voltage(V)	Current(A)	Constant	Display
DTS353	1.0	3×240/415	5(80) 1.5(5)	10imp/kwh	LCD7+1

4. Startup

The meter can be started and recorded continuously at the reference current(see the table)

Meter	Meter class			Power factor
	1	2	3	
Via mutual inductor	0.004I _b	0.05I _b	0.01I _b	1

5. Creep

Its output is less than 1 impulse when the rated voltage is 115% or current loop without current.

III. Electric parameter

Working voltage: 0.9—1.1 Rated voltage

Utmost voltage: 0.8—1.15 Rated voltage

Power consumption: ≤2W and 10VA

IV. Weather condition

4.1 Temperature range

Working temperature: $-20\text{---}55^{\circ}\text{C}$

Optional working temperature: $-40\text{---}65^{\circ}\text{C}$

Storage and transportation temperature: $-25\text{---}70^{\circ}\text{C}$

4.2 Humidity range

Average humidity per year: $\leq 75\%$ 30 days in one year (pervasion as a natural way), the humidity can reach up to 95%, and it usually can reach 85%

V. Exterior dimension: $100\text{mm} \times 76\text{mm} \times 65\text{mm}$ Weight: 0.5kg

VI. Installation and connection

1. Installation dimension (Figure 2) mm

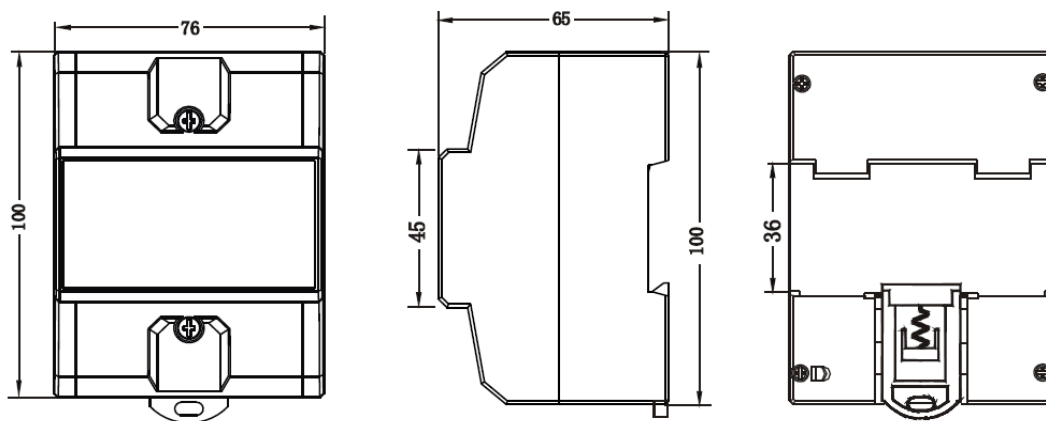
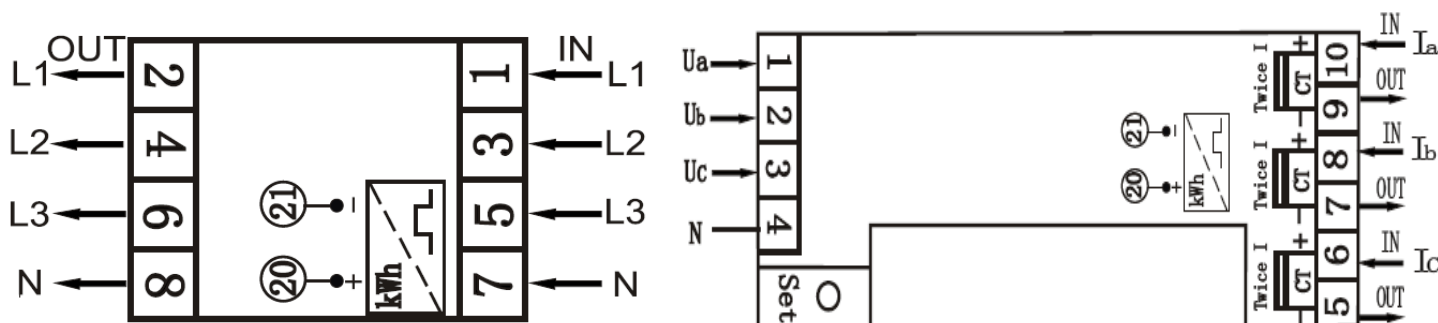


Figure2

2. Connection diagramer



Direct connection

CT connection

VII. Transportation and storage

1. The meter should be packed and can not be over-shocked in the process of transportation and storage. It should be according to transportation and storage rule of GB/T15464-1995 *currency packing condition of instruments*.

Keep the meter in the original package when storage, and the unit meter fold layer should not be more than 5 pieces.

Keep the storage place clean. The storage temperature range should be $-25^{\circ}\text{C}\text{---}+70^{\circ}\text{C}$, and the relative humidity should be $\leq 85\%$.

There in no corrupt gas in the air.

2. Time limit of guarantee

Within 18 months from the day of sale, and on the condition that the user abide by the specification and the sealing is kept completely. If the meter is not correspond under the rule of enterprise standard, it can be repaired for free or replaced.