Acrel

# DTSD1352

## General

DTSD1352 three phase electric meter is designed for three phase energy measurement on low voltage system.The meter meet the related technical requirements of electronic meter in the IEC62053-21、IEC62053-22 standards.

## Product Functions

| Function | Description | Provide |
|---|---|---|
| Measurement of kWh | Active kWh (positive and negative) | ■ |
| | Reactive kWh (positive and negative) | ■ |
| | A, B, C phase positive kWh | ■ |
| Measurement of electrical parameters | U、I、P、Q、S、PF、HZ | ■ |
| Measurement of harmonic | 2~31ST voltage and current harmonic | □ |
| LCD Display | 8 digits | ■ |
| Button | 4 keys | ■ |
| LED alarm | voltage loss and over voltage | ■ |
| Switch I/O | Active switch input | □ |
| | Switch output | □ |
| Data | Maximum demanded kWh and time happened | □ |
| | Frozen data on last 48 months, last 90days | □ |
| | Date, time | □ |
| Communication | Infrared | ■ |
| | RS485, MODBUS-RTU | □ |
| Temperature measurement | Support 3 outlay NTC temperature | □ |

Note:(■: standard; □: optional)

## Technical Parameter

### ■ Electric performance

| | | |
|---|---|---|
| Voltage | Reference voltage | 3*57.7/100V 3*220/380V 3*100V 3*380V |
| | Reference frequency | 50Hz |
| | Consumption | <10VA (Single phase) |
| | Accuracy | ±0.2% |

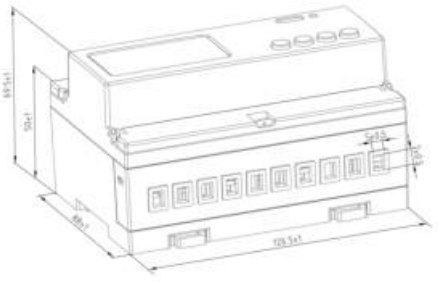
DTSD1352

| | | |
|---|---|---|
| Current | Maximum current | 6A,80A |
| | Starting current | Direct connect:0.004Ib Connect via CT:0.001In |
| | Consumption | <1VA (Single phase rated current) |
| Frequency | range | ±0.2% |
| | Accuracy of Active kWh | Class 0.5s |
| Energy accuracy | Active energy | Class 2 |
| | reactive energy | ≤0.5s/d |
| Pulse | Pulse width | 80±20ms |
| | Pulse constant | 400imp/kWh;6400imp/kWh |
| Communication | Interface | RS485 |
| | Protocol | Modbus RTU |

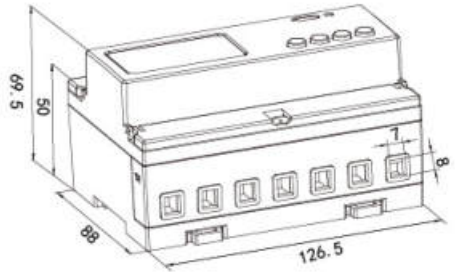
### ■ Working environment

| | | |
|---|---|---|
| Temperature | Operating | -25℃~55℃ |
| | Storage | -40℃~70℃ |
| Humidity | ≤95%(No condensation) | |
| Altitude | <2000m | |

## Dimension drawings (Unit: mm)



Connect via CT

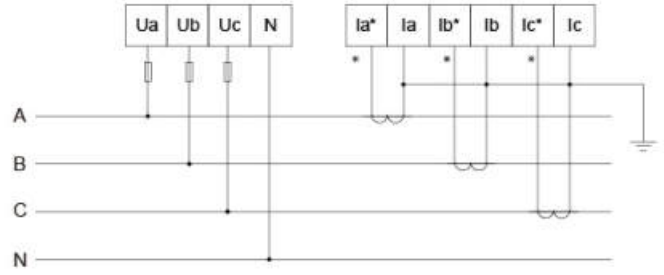



Direct connect

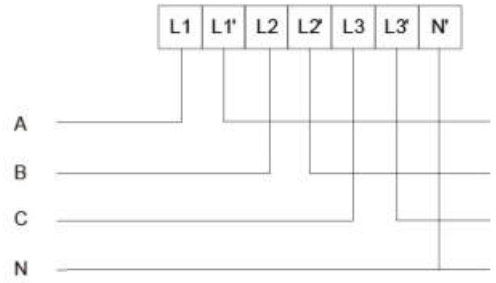
Note: The torque of direct connect should not be greater than 4.0N·m, and the torque of connect via CT should not be greater than 2.0N·m.

## Wiring and Installing

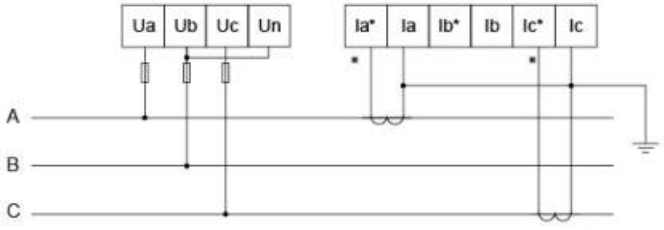
### ■ Wiring



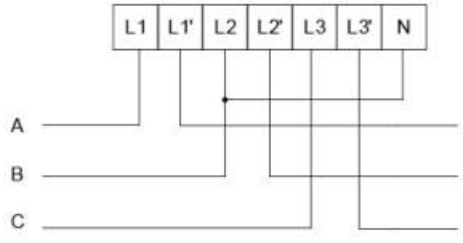

Three phase four lines connect via CT



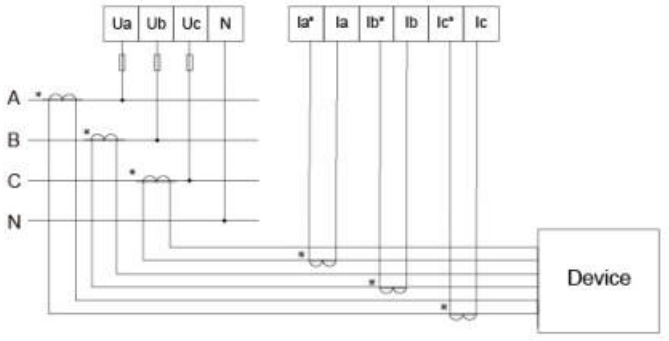

Three phase four lines direct connect



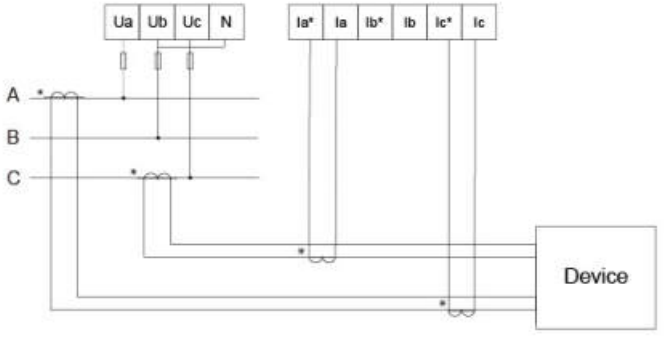

Three phase three lines connect via CT



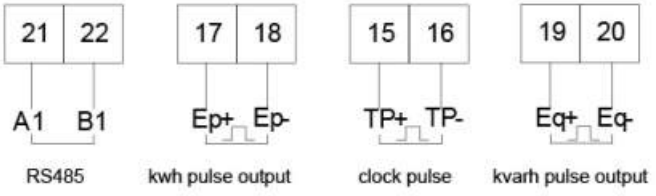

Three phase three lines direct connect



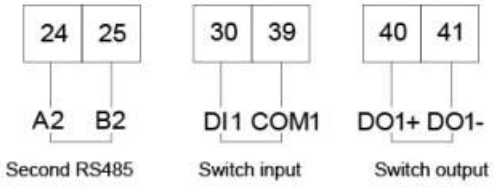

Three phase four lines, 3CT



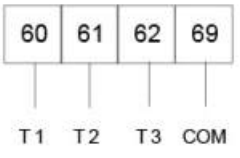

Three phase three lines, 2CT




Communication, pulse connection

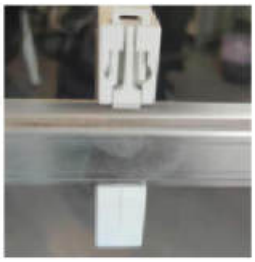



Communication, pulse connection




Outlay NTC temperature measurement

## Installing



DTSD1352 installing

Note：DIN 35 mm rail installation.

## Display examples

forward active energy

Voltage on A phase

Current on A phase

power