Acrel

DTSD1352-xSyD

DTSD1352-xSyD Series Rail Type Multiloop Powermeter



CE

General

DTSD1352-xSyD series rail type multi-loop power meters are mainly used for measuring the full electric parameters of multiple three-phase circuits,Up to X three-phase loopand Y one-phase loop current inputs can be connected simultaneously.It Can measure voltage and current, power, power factor, phase angle, unbalance, harmonic and other parameters.

Product Specification

◆ Topic module naming rule

DTSD1352-xSyD

x-channel three-phase current circuit, y-channel single-phase current circuit Ankeri product series

Specification and model of matching transformer

Voltage specification	Instrument model	Current specification	Matching current transformer	note
3×220/380∨	DTSD1352 - xSyD	3×250A	AKH-0.66/W-20Y Class 0.2	For three phase
		3×100A	AKH-0.66/Z-15Y Class 0.2	For three phase
		1×100A	AKH-0.66/W-12Y Class 0.2	For single phase

Technical parameter

Auxiliary power supply		AC/DC 85 ~ 265V;power consumption≤10VA	
Frequency	45~65Hz		
Input signal	voltage	Rated value:AC 3×220V/380V Overload:1.2 times rated value (continuous) 2 times rated value/1 second Power consumption:≤ 0.5VA (per channel)	

	nput Current		Rated v	alue:AC 250A,100A;(external closed port transform			
Input			Overload:1.2 times rated value (continuous)				
signal		10times rated value/1 second					
		Power consumption:≤ 0.5VA (per channel)					
			Frequency 0.05Hz,voltage and current class 0.5,				
			active energy class 1,reactive energy class 2				
		2-31 harmonic accuracy: ±1%					
		Output mode:optocoupler pulse with open collector					
Function	Puise	Pulse output		(one out of two with active input)			
			RS485 interface、Modbus-RTU protocol/QZTT 1017-2015				
	Communication		technical specification for China Tower smart meter				
		Baud rate 1200 \sim 38400					
		Input Output	4-channels passive dry contact input, built-in power supply				
Function	Switch -ing		2-channels active wet node input,identify engine oil and				
1 unction			power connection(or pulse output)				
	value		Output mode:relay normally open contact output				
			Contact	rating:AC 250V/3A DC 30V/3A			
Security		r freque tand vol	,	>AC 2kV/1min			
	Insula	tion resi	stance	Input and output end to housing			
				Working temperature:-20 $^\circ\!\mathrm{C}\sim$ +60 $^\circ\!\mathrm{C}$			
	Enviro	nmont		Storage temperature:-40 °C ~+70 °C			
Environment				Relative humidity:≤95% no condensation			
				Altitude:≤2500m			
Electromagnetic compatibility			patibility	Better than level 3			

Product function

Function	Description
Manurament of anormy	All electrical parameters of x-channel three-phase and
Measurement of energy	y-channel single-phase circuits are measured
Electrical parameters	$U_{\nu} I_{\nu} F_{\nu} P_{\nu} Q_{\nu} S_{\nu} PF$
Harmonic	2-31st voltage and current harmonic
Extreme value record	U. I. P
Alarm output	Over voltage、Over current、Phase break、DI linkage
Rate setting	4 rate time zone 14
	Output mode: optocoupler pulse with open
Pulse output	collector(one out of two with active input)
communication	RS485 interface、Modbus-RTU
communication	Baud rate 1200 \sim 38400
	4-channels passive dry contact input, built-in power supply
DI	2-channels active wet node input, identify engine oil
	and power connection(or pulse output)
DO	Output mode:relay normally open contact output
00	Contact rating: AC 250V/3A DC 30V/3A;

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Dimension and installation

(1)DTSD1352 - xSyD series main part dimensions



						unit:mm
	Dimension				Rail size	tolerance
Single module	long	width	high	Withterminal length		tolerande
	87.8	72	71.5	97.7	35	±1

(2) dimension of transformer







Note: three transformers of three-phase circuit share the same harness.

Wiring



CH1 =#1250A	CH2 三相100A	CH3 三相100A	CH4 三相100A	
POWER/R	5485			L

Upper terminal of module

Lower terminal block of module 1



Lower terminal block of module 2



Three phase four wire (current secondary input)

unit:mm



DTSD1352-xSyD



Three phase four wire (direct current input)



Three phase four wire (secondary connection of voltage and current)



Three phase four wire (direct connection of voltage and current)



Three phase three wire (current connected through transformer)



Three phase three wire

(voltage and current connected through transformer)

Operation guide

Panel description

SET key	In measurement mode, press this key to enter programming mode. The meter prompts for a password. After entering the correct password (0001), the meter can be programmed. In programming mode, it is used to return to the previous menu.
Up key(▲)	In measurement mode, for switching circuits; In programming mode, it is used to switch the number of digits in the same level menu or data
Down key(▼)	In measurement mode, it is used to switch display items; In programming mode, it is used to switch the menu of the same level or increase the number of digits.
ENTER key	In measurement mode, it is used to switch display items; In programming mode, it is used to confirm the selection of menu items and confirm the modification of parameters.