

Smart Power Meter



Bruntab BRN3-CT/D Three Phase DIN rail Energy Meter

Bruntab BRN3-CT/D three phase DIN rail energy meter is an intelligent instrument designed mainly for electric energy statistics and management needs of power systems, industrial and mining enterprises, and public facilities. The 3 phase din rail energy meter has the advantages of high precision, small size, and convenient installation.

Three phase din rail energy meter BRN3-CT/D can measure all power parameters, with 2~31 sub-harmonic and total harmonic content detection. With RS485 communication interface and optional MODBUS-RTU protocol, the power meter can be widely used in various control systems, SCADA systems, and energy management systems.

Main Functions



Full Parameter Measurement High precision Easy Installation Small Volume

Measurment 1	3-phase AC kWh, kVarh
Measurment 2	U,I,P,Q,S,PF,F and etc
Display	LCD Display
HMI	Keypads Programming
Communication	Rs485 (MODBUS-RTU)
Multi-rate/tariff	4 Tariff Rates and etc
Harmonic	2~31st&Total Harmonic
Data Function	Data Fronzen, Max Demand

Parameters of BRN3-CT/D Three Phase Din Rail Energy Meter

technical parameter descriptions

project			performance parameter
Specification			3 phase 3 wires, 3 phase 4 wires
Measurement	Voltage	Reference voltage	3×100V、3×380V、3×57.7/100V、3×220/380V
		Consumption	<10VA(Single phase)
		Impedance	>2MΩ
		Accuracy class	Error±0.2%
	Current	Input current	3×1(6)A、3×10(80)A
		Consumption	<1VA Single phase rated current
		Accuracy class	Error±0.2%
	Power		Active, reactive, apparent power, error±0.5%
	Frequency		45~65Hz, Error±0.2%
Meter	Energy		Active energy(Accuracy class: 0.5) reactive energy(Accuracy class 2)
	Clock		≤0.5s/d
Digit signal	Energy pulse output		1 active photocoupler output
pulse	Width of pulse		80±20ms
	Pulse constant		400imp/kWh,10000imp/kWh(Correspond with the basic current)
communication	Interface and communication protocol		RS485 : Modbus RTU
			RS485 : Modbus RTU
	Range of communication address		Modbus RTU:1~ 247 ;
	Baud rate		1200bps~19200bps
environment	working temperature		-25°C~+55°C
	Relative humidity		≤95%(No condensation)



