PPH32SPA

ENBAYA METERS

Three Phase Split Prepaid Electricity Meter

This three phase direct connection meter used in a split prepayment metering system. It complies with STS standard and communicates with ClU by Mbus or PLC for energy consumption monitoring and credit charging.

Features

- STS standard protocol ensures an open and secure operating system.
- Optical communication, open protocol: DLMS/COSEM Standard (E Mode).
- Internal switch relay for load demand control by configuration or remote communication.
- Prepayment and post-payment mode switchable for users' convenience.

Functionalities

Measurement

- Unidirectional or bi-directional measurement
- Active energy, active reverse energy measurement
- Instantaneous value measurement

LCD Display

- Balance display configurable
- Large digit LCD display, easy for reading
- LCD backlights to increase readability in low light conditions (optional)
- Scrolling display configurable for instant information enquiry
- Display of last 6 months active energy consumption
- 12-month billing data and more frozen data for inquiry

Communication

- Communication with CIU via PLC or MBUS, depending on the site
- RS485 communication with interface in accordance to DLMS standard (optional)
- Prepayment is made via a numeric token

Event Record

- Multiple event detections and records with categories of operation, power grid and tampering

Tampering Proof

- Meter cover open detection and record
- Meter terminal detection and record
- Bypass (optional)
- Large magnetic event (optional)

Technical Specifications

Description	Value
Accuracy	Class 1 or 2 (IEC), Class A or B (MID)
Voltage Reference voltage Operating voltage range	 3×220/380V-3×240/415V 70%-120%Un
Current Basic current Maximum current Starting current	 5A,10A 40A, 60A, 80A, 100A ≤ 0.4%Ib
Frequency	50Hz or 60Hz
Temperature Operation range Limit range for storage and transport	 -25°C to +60°C -40°C to +75°C
Humidity	Up to 95%
Power Consumption Power consumption in voltage circuit (active) Power consumption in voltage circuit (apparent) Power consumption in current circuit	 ≤2 W ≤10 VA ≤1 VA
Insulation Strength AC voltage test Impulse voltage test	 4kV during 1min 1.2/50μs mains connections 6kV
EMC Electrostatic discharges(Contact discharges) Electrostatic discharges(Air discharges) Surge immunity test Fast transient burst test Electromagnetic RF fields (80MHz to 2000MHz)	 8kV 15kV 4kV 4kV 10V/m(with current), 30V/m(without current)
Connection Terminals	¢8mm

Technical Specifications

Housing Protection degree Meter cove Meter base Terminal cover	 IP54 (with long terminal cover) Opaque PC+ fiber glass with a transparent window Opaque PC+ fiber glass Opaque PC+ fiber glass
Display Digit size Number of digits	 4.5mm x 8.8mm 8
Communication Interface Optical communication PLC/MBUS alternative	 DLMS/COSEM
Weight Net weight Package	 Approx.1.61kg (Extended terminal cover) Approx.1.57kg(Short terminal cover) Approx.0.15 kg (Extended terminal cover) Approx.0.15kg (Short terminal cover)
Dimension	266mm×175mm×82mm (Extended terminal cover) 224mm×175mm×82mm (Short terminal cover)