PCR323

3Phase electronic PLC Meter

Technical Data

» For 3 phase 4 wire network
» Class 1.0 for active energy
» 4 tariffs and 8 time term
» Two-way measuring energy
» Current and Voltage detect
» IR comm. Port for HHU
» PLC communication for AMR
» Load detect and Control
» Relay control output
» Design for pre-payment and Remote control

To IEC 62052-11 - IEC 62053-21

Basic Functions

- Active and reactive energy measurement: active class I and reactive class II according to EN 61036 and EN 61268
- Two communication modes: PLC and infrared communication
- Multi tariff support: multiple tariff and time period can be configured
- Prepayment support: Credit is downloaded into the meter. Limit value generates notification
- Contractual limit control: built-in Relay Enables the operator to cut off the power
- Configurable LCD display: providing rich and configurable display dataset
- Load restriction adjustment: contractual maximum power and demand can be adjusted
- Load profile recording: 35 days of active and reactive load curve can be saved
- Quality service data recording: detecting and recording of voltage interruption and variation
- Anti-tamper function: detecting of illegal tie-in or unauthorized access to the meter
- Table-like data access: providing flexible data access
- Meter working status diagnosis: giving internal hardware abnormity and reverse phase line connection Using as a repeater: the meter can be taken as a repeater at the same time to extend the distance of PLC communication. Each meter acts as a repeater to extend the PLC communication distance.
- Secured communication mode: password authentication method to protect the writing operation in PLC mode and reading & writing operations in local infrared mode
- Software can be updated via IR comm. or RS232 using a PC or HHU.
- Push button should be included for data scrolling and power restore in a case of disconnect.

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Yesterday's Maximum is Today's Minimum!

General DaTa	(Un = refr. voltage, Ib = Basic current)
Un	3 x 220/380 V
VOLTAGE RANGE	0.7 ... 1.3Un
NOMINAL FREQUENCY	50 Hz
TYPE	10(60)A
REFR. (BASIC) CURRENT	Ib=10 A
MEASURE RANGE	
- METERING	500 mA...60 A
- STATING CURRENT(0.2%IB)	< 20 mA
LOAD CAPACITY	
METERING IMAX	60 A
THERMAL	72 A
SHORT CIRCUIT 0.01 S	30 x Imax
POWER CONSUMPTION	
VOLTAGE CIRCUIT (PER PHASE)	< 1.5w(5VA)
CURRENT CIRCUIT (PER PHASE)	< 0.5VA
METER CONSTANT	800 imp/kwh
ACCURACY CLASS	Class 1.0 (Typical in 50% Standard level)
TEST OUTPUT (LED)	
- PULSE FREQUENCY	1Hz (I= Ib)
- PULSE LENGTH	90ms (±20ms)
DISPLAY	LCD
- LIFE TIME	> 10 years
- SYMBOL SIZE	10mm x 5mm
TRANSMITTING CONTACT	optical switch
- LOAD CAPACITy	Max. 24V, 10mA
- LIFE TIME	3 x 1010 pulse
- PULSE LENgTH	90ms
RELAY CONTROL OUTPUT	3x60A
COMMUNICATION	
- PLC	600bps, Point-Point 2000m, 2 levels intelligent relay up to 6000m
- IR	1200bps
- PROTOCOL	Modbus
PROTECTION CLASS	IP 52 (IEC529)
TEMP COEFFICIENT	< ±0.02% / °C (-25°C to 65°C)
TEMPERATURE RANGE	
-SPECIFIED OPERATERANGE	- 20°C ~ + 60°C
- LIMIT RANGE OF OPERATION	- 25°C ~ + 65°C
- STORAGE AND TRANSPORT	- 30°C ~ + 70°C
IMPULSE VOLTAGE TEST	6kV (typical 12kV)
INSULATION	2/4kV, 50 Hz / 1min
EMC	
-ELECTROSTATIC DISCHARGES	To IEC 61000-4-2, contact discharges, 8 kV (typical 10kV)
-ELECTRO. HIGH FREQ. FIELD	To IEC 61000-4-3, 80~1000Mhz, 10V/m (typical 15V/m)
-ELECTRICAL FAST TRANSIENT / BURST	To IEC 61000-4-4, 2/4 kV, (typical 4/6kV)
-SURGE VOLTAgE TEST	To IEC 61000-4-5, 2/4 kV, (typical 4/6kV)
RADIO INTERFERENCE	To IEC/CISPR 22, Class B equipment
METER LIFE	> 10 years
DIMENSION (L x w x H)	272 x 172 x 75 mm