PLA33 power line analyser

s i m p l y s m a r t s o l u t i o n

Power line analyser PLA33 is a modern device for multifunction monitoring of main electrical parameters in three-phase network. Thanks to continual measurement of voltage and current according the norm EN50160 it is ideal for very precise power management.
Internal memory and communication interface define the PLA33 being used as power monitoring recorder or part of SCADA systems.

- 4 quadrant continual measurement
- monitoring of U in every phase and phase-phase
- monitoring of I in every phase
- current in neutral wire
- system frequency
- THD U and THD I
- odd harmonics of U and I till 19th (L1, L2, L3)
- power factor (L1) and cosφ (L1, L2, L3)
- $P^{+/-}$, $Q^{+/-}$, S (L1, L2, L3, ∑)
- $E_{active}{}^{+/-}$, $E_{reactive}{}^{+/-}$ (L1, L2, L3, ∑)
- internal current transformers ICT
- voltage and current measurement according the standard EN50160
- measuring phase-phase voltage from 0 ... 520 VAC
- auxiliary power supply
- memory for recording of maximums / minimums
- memory for recording of 20 power cut events
- internal real-time clock
- communication interface RS485 with Modbus RTU protocol
- internal memory 512MB for measured parameters recording
- minimum internal memory sampling period 200 ms
- two independent digital input / output

Type	Measurement according EN50160	RS485 interface	512MB memory	2 inputs / outputs
PLA33	●			●
PLA33 C	●	●		●
PLA33 CM	●	●	●	●
PLA33 L	●			

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Parameter	Value
Power supply voltage	230 VAC (+10%, -15%) or 24 VDC
System frequency	45 Hz ... 65 Hz
Measuring voltage	phase 0 - 300 V, phase-phase 0 - 520 V
Current measurement range	10 mA ... 5,3 A
Current sensitivity	5 mA
Measuring method of U and I	continual according EN50160
Accuracy	0,5% MR
Power consumption	1,5 VA
Number of outputs / inputs	2 programmable outputs / inputs
Data memory	512 MB Flash memory
Minimum recording period	200 ms
Powercut event memory	20 events
Communication interface	RS485
Communication protocol	Modbus RTU
Communication speed	up to 38400 Bd
Working temperature	-30°C ... +70°C
Dimensions	96 x 96 mm
Site depth	55 mm
Weight	0,5 kg
Protection degree	IP54 front panel, IP20 rear cover

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