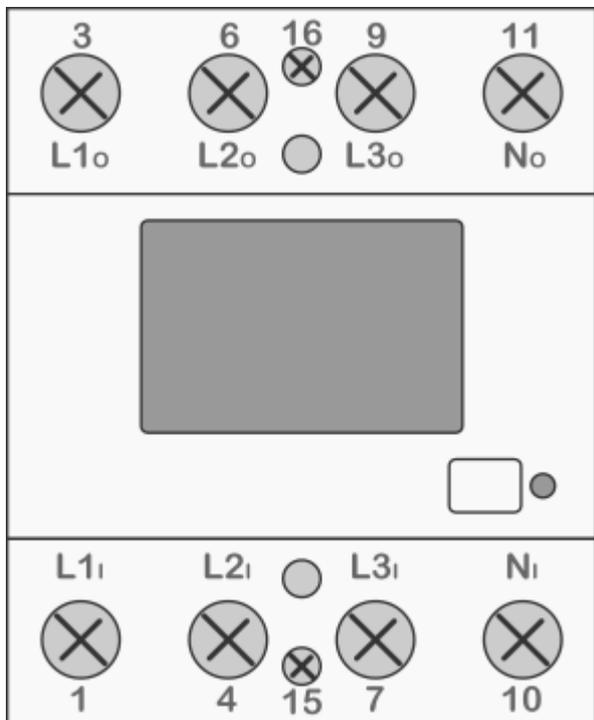


Three phase power-meter

Three phase power-meter



| | |
|---|------------------------------|
| Model number: | PM3-I-D |
| Mounting: | DIN rail, 3M, 53 mm |
| Dimensions: | 53 x 84 x 66 mm |
| Used for measuring power and energy of | |
| ✓ | three-phase energy sources |
| ✓ | three-phase energy consumers |

Applications

- Digital multi-function energy meter for or 3-phase sources or consumers

Features

- Three phase direct connection up to 80 A
- Serial RS485 communication
- Display LCD 7+1 digit
- Multi-functional front LED

General description

The PM-3-IQ is intended for energy measurements in three-phase electrical power network and can be used in residential, industrial and utility applications. Meter measures energy directly in 4-wire networks according to the principle of fast sampling of voltage and current signals.

Connecting terminals can be sealed up against non-authorized access with protection covers. They are built to be fastened according to EN 60715 standard. Meter has built-in RS485 serial communication with the MOD-BUS protocol which enables data transmission and thus connection of

the measuring places into the network for the control and management with energy.

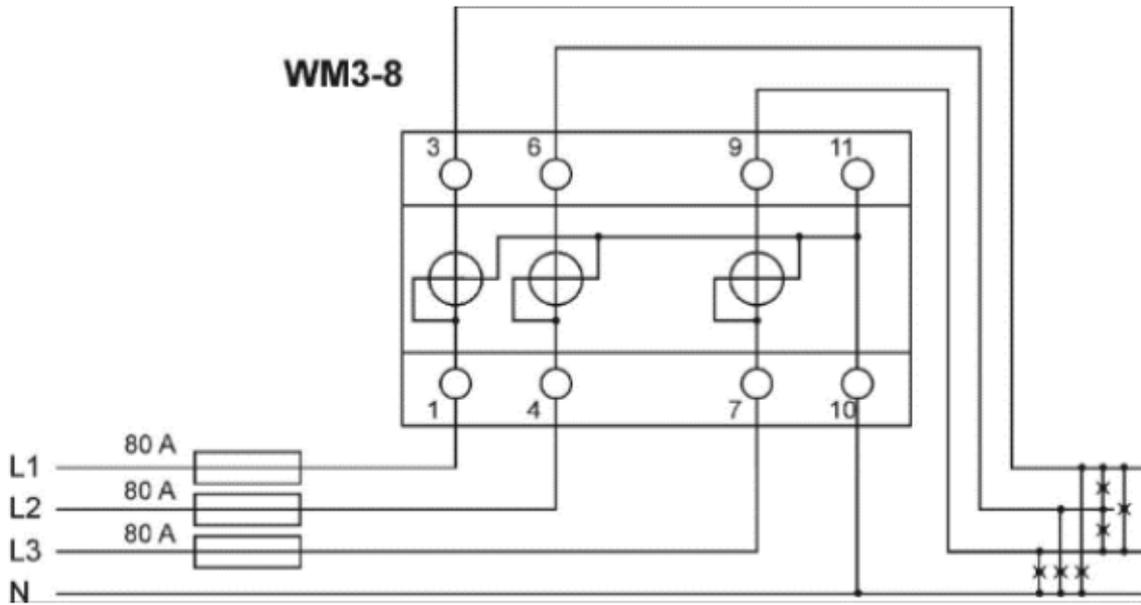
Technical specifications

| | |
|--|---------------------------|
| Nominal voltage | 230 VAC (-20..+15%) |
| Power connector | 2,5 .. 16 mm ² |
| Reference current | 5 A |
| Maximum current | 80 A |
| Operational frequency range | 50 or 60 Hz |
| Internal power consumption | < 8 VA |
| Communication type | RS485(half-duplex) |
| Communication protocol | Modbus RTU |
| Accuracy | |
| Active energy (Wh) | Class 1 IEC 62053-21 |
| | class B EN 50470-3 |
| | ±1.5% from Imin to Itr |
| | ±1% from Itr to Imax |
| Ambient conditions and Safety | |
| Dust/water protection | IP50 |
| Operating temp. range | -25 ... 55°C |
| Indoor meter | yes |
| Protection class | II |
| EC Directives conformity | |
| EC Directive on Measuring Instruments 2014/32/EU | |
| EC Directive on EMC 2014/30/EU | |
| EC Directive on Low Voltage 2014/35/EU | |
| EC Directive WEEE 2002/96/EC | |

Terminals

| PM3-I-D | | | Power source |
|-------------|------|----|-----------------------|
| Phase 1 IN | L1 ↑ | 1 | L1 |
| Phase 2 IN | L2 ↑ | 4 | L2 |
| Phase 3 IN | L3 ↑ | 7 | L3 |
| Neutral | N | 10 | N |
| PM3-I-D | | | Power consumer |
| Phase 1 OUT | L1 ↑ | 3 | L1 |
| Phase 2 OUT | L2 ↑ | 6 | L2 |
| Phase 3 OUT | L3 ↑ | 9 | L3 |
| Neutral | N | 11 | N |
| PM3-I-D | | | CAD-232-A2-IQ BR-WN-W |
| RS485 | 16 | A | Rx/T+ |
| | 15 | B | Tx/T- |

Connection



Manual

PM3-I-D Technical Documentation

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