

General description of types SINUS 5//1 und SINUS 85

Application

Energy meters of types SINUS 5//1 and SINUS 85 are three-phase four-wire alternating current meters for transformer and direct connection. They are used for measuring the electrical active and reactive energy in phases of any loads. It may be measured in installations with oscillation package controls (intermittent current consumption) as well as with distorted sine wave. The meters SINUS with MID conformity marking based on a type test are provided as offsetting measuring devices for the registration of electrical active energy. Their application covers industrial plants, workshops, machines, offices etc, and are designed for snap-on fastening on 35 mm top hat rails.

Type and function

The meters SINUS 5//1 and SINUS 85 are fully electronic independently functioning alternating current electricity meters for fixed installation in three-phase four-wire power supply systems and are designed for measuring the electrical active and reactive energy and register them in up to two energy tariffs.

They are designed as indoor meters as housing type and as installation built-in type in 4 module widths and meant for snap-on fastening on top hat rails. One display, one tariff control input for tariff switchover and at least one pulsed output for the output of pulses proportional to the active energy are always available.

An additional auxiliary voltage for the meter is not necessary. The energy measured values are permanently stored in the meter in case of a power failure. Optionally, a second pulsed output for the output of pulses proportional to the reactive power or alternatively a M-Bus or Modbus communication interface for data transmission are available.

Special features

- Digital three-phase energy counter 5//1 A or 85 A direct measurement
- 2 x 230 / 400 V
- Module widths 72 mm
- with MID certificate valid in the EU
- optionally available with integrated M-BUS or Modbus
- Accuracy class 1 (class B)
- LC display 8-digit (6+2 decimal places)
- Installation self test
- two tariff meter HT/NT with tariff switchover input
- with 2 N terminals (loop through of the neutral)
- with 2 S0 pulsed outputs for active and reactive energy
- with 2 LED's for active and reactive energy, permanently lit after power ON without load and flashing proportionally to the load
- the menu indicates: consumption, voltage (V), current (A), power output (W), apparent power (VA), reactive power (var)
- Factory-set S0 pulse number and pulse length (Option)

Dimensions

