# sLA - single phase electricity meter for active energy measurement designed for installation on the standard rail (TH-35), (MID* certificate)


## Application

**sLA** is a single phase electricity meter designed for active energy measurement in low voltage power system (230 V, 5(60) A, 50 Hz). The meter is recommended for commercial energy consumers, shopping centers as well as industrial measuring application.
The meter is equipped with electromechanical counter with ability of presenting consumed energy with accuracy up to do 0,1 kWh. Technology used for designing the meter gives assurance of high precision measurements [class B (±1%)] of energy. The sLA meter has been designed in a housing allowing the meter to be installed on the standard TH-35 rail system.

## Communication interface

sLA is equipped with pulse output type OC (open collector), which can be used for remote metering data reading systems.

The meter has an EC - Type Examination Certificate number **TCM 221/12 - 4897** and is the subject to conformity assessment according to EU MID Directive and can be submitted to secondary legalization.

### Basic technical data

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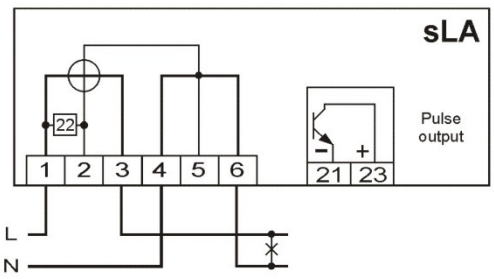
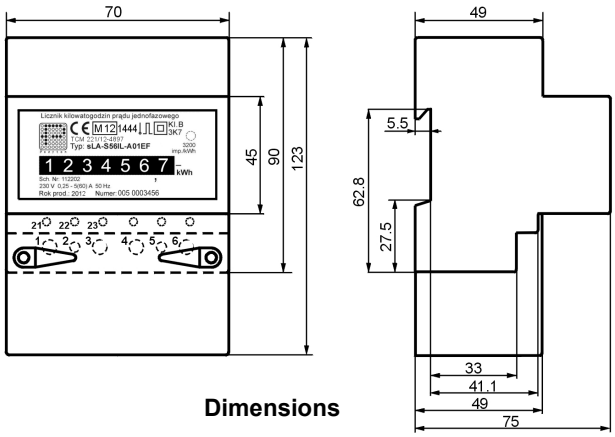
|---|---|
| **Type** | **sLA** |
| **Accuracy** | **1** - EN 62053-21<br>**B** - EN 50470-3 |
| **Nominal voltage $U_n$** | **230 V AC** |
| **Reference current $I_{ref}$** | **5 A** |
| **Maximum current $I_{max}$** | **60 A** |
| **Starting current $I_{st}$ / Minimum current $I_{min}$** | **20 mA / 250 mA** |
| **Transitional current $I_{tr}$** | **500 mA** |
| **Frequency** | **50 Hz** |
| **Power consumption in voltage circuits** | **< 5,5 VA  < 0,5 W** |
| **Power consumption in current circuits** | **< 0,02 VA** at reference current |
| **Pulse output** | Transoptor, open collector type (standard open) with duration time 40÷90 ms<br>**$U_{nom}$=24 V DC, $U_{max}$=28 V DC, $I_{max}$=30 mA** |
| **Pulse output constant** | **3 200** imp. / kWh |
| **Reading display** | **Electromechanical counter**, height of digits **5 mm** |
| **Counter capacity** | **999999,9** |
| **Meter constant** | **3 200 imp. / kWh** |
| **Electromagnetic compatibility**<br>**(acc. EN 61000-4 and EN 50470-1)** | Repetitive electrical fast transients – 4 kV; Surges caused by overvoltages - 4 kV; Static electricity discharges – 8 kV; Voltage failures and interruptions |
| **Housing** | **ABS**, Protection Class: **II**, **IP 51** |
| **Specified operating range** (EN 60721-3-3 Table 1) | **- 40 °C ... + 70 °C** (class 3K7) |
| **Limit range of operation** (EN 60721-3-3 Table 1) | **- 40 °C ... + 70 °C** (class 3K7) |
| **Limit range for storage** (EN 60721-3-1 Table 1) | **- 40 °C ... + 70 °C** (class 1K5) |
| **Limit range for transportation** (EN 60721-3-2 Table1) | **- 40 °C ... + 70 °C** (class 2K4) |
| **Weight** | **~ 0,33 kg** |




**Connection diagram**




**Dimensions**

**** MID** - **M**easuring **I**nstruments **D**irective*

ALL FEATURES ARE SUBJECT TO CHANGE WITHOUT NOTICE ACCORDING TO PRODUCTS IMPROVEMENTS.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