



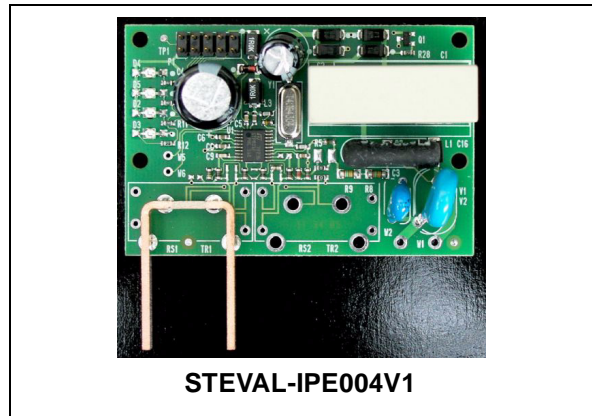
STEVAL-IPE004V1

Electricity Meter (mono phase) - Measurement Board 1 Shunt

Data Brief

Features

- Single-phase, 0.5 class accuracy guaranteed
- $U_{NOM}(RMS) = 140$ to $300V$,
 $I_{NOM}/I_{MAX}(RMS) = 2/20A$, $f_{LIN} = 45$ to $65Hz$,
 $T_{AMB} = -40$ to $+85\text{ }^{\circ}C$
- LED checking for:
 - Functioning
 - No Load Condition
 - Reverse Energy Direction
- Stepper Motor Display Connector
- Capacitive Power Supply
- SPI Interface Connector:
 - Active, Reactive Apparent Power consumption
 - V_{RMS} , I_{RMS} and Line Frequency
 - Status



Applications

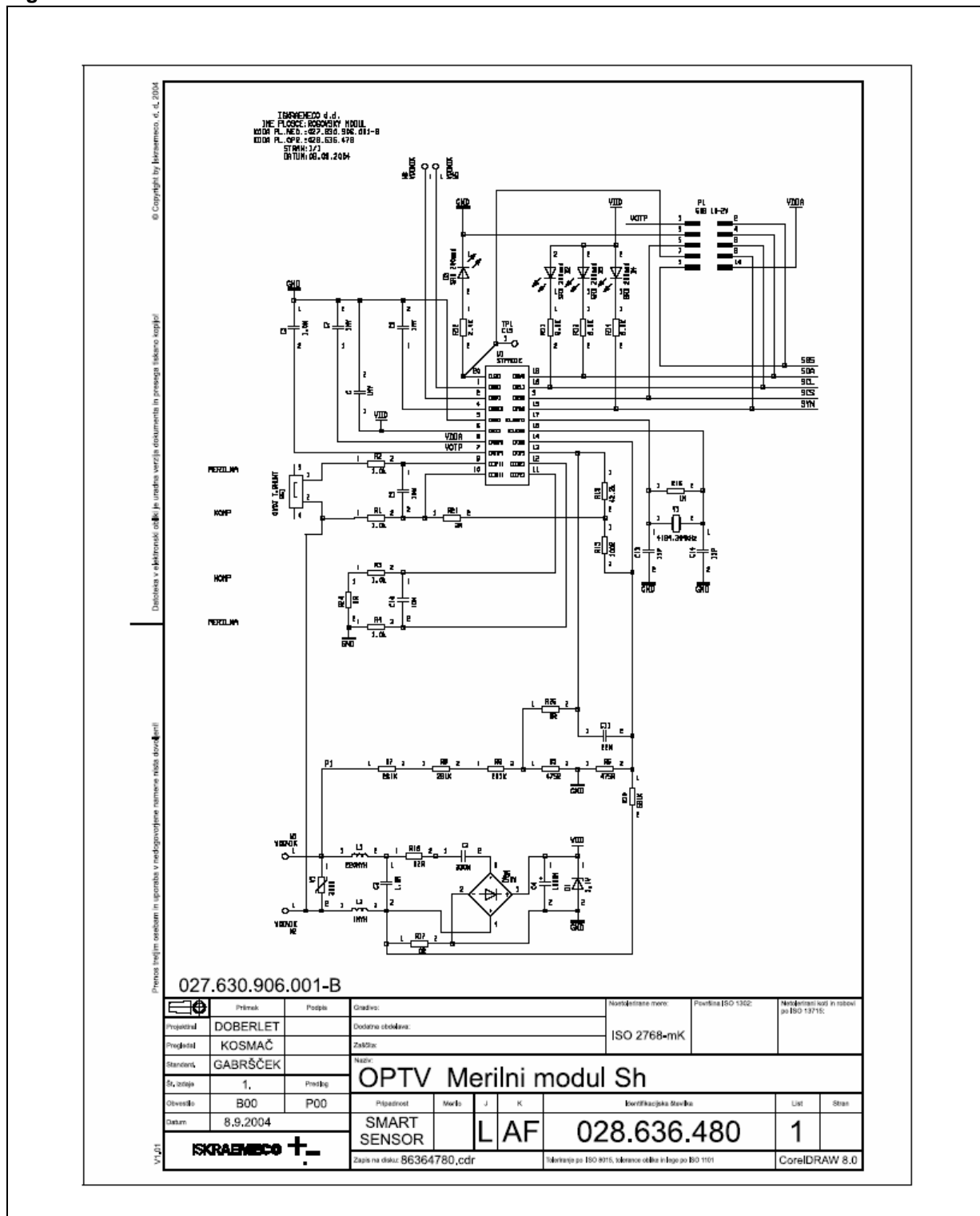
This metering module can be used to build a Class 0.5 Single-phase standalone or microprocessor based meter with or without Tamper detection for power line systems of $U_{NOM} = 140$ to $300V_{RMS}$, $I_{NOM}/I_{MAX} = 2/20A_{RMS}$, $f_{LIN} = 45$ to $65Hz$ and $T_{AMB} = -40$ to $+85\text{ }^{\circ}C$.

In standalone mode, a stepper motor display should be connected to pins W5 and W6. A user can select the type of stepper or the constant of output pulse frequency by changing LVS or KMOT configurators respectively.

In Microprocessor based mode, a control board with a microprocessor should be connected to the male connector P1 of the module using a 10-wire flat cable.

1 Board Schematic

Figure 1. Scheme



2 Revision history

Date	Revision	Changes
12-Jan-2006	1	Initial release.

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