

EMKW16-80 USER MANUAL

Electronic single phase energy meter for
230V AC, 5(25)A or 5(32)A 5(40), 50
or 60Hz with blocked inverse counting
LCD display 6+1 or Cyclometric register display 5+1
As per connection 1600 or DIN 43856 (see meter)
Version according to IEC1036 / EN61036,
IEC2053 / EN62053, CE

Accuracy class 1

DIN-rail fixing (DIN-EN 50022)

1 module = 18mm (DIN 43880)

Interface: SO-optical coupler (as per DIN43684)

Impulse value (imp/kWh) see meter

Display: 5 digits + 1 decimal (mechanical counter)
or 6 digits + 1 decimal (LCD)

Power consumption / Burden approx 0.5W

Voltage working limit range: $\pm 10\%$

Current service limit range: 0.025A to 40A

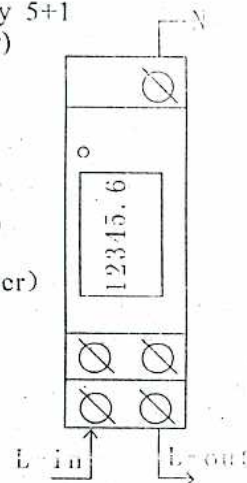
Starting current with $\cos \Phi = 1$ typical 22mA

Harmonics considered until 7 kHz

Service temperature limit: -20°C to $+50^{\circ}\text{C}$

Maximum relative air humidity: average year value 75%

Short time value 95%



Installation guide

Net connections:

Input lead L to terminal 1

Input lead N to terminal 4

Output lead L to terminal 3

Fuse wiring

For fuse=25A, tripping characteristic B;

Minimum section 2.5mm^2

For fuse=32A, tripping characteristic B;

Minimum section 4mm^2

Wiring of passive impulse-output;

As per "SO" -conditions of DIN43864

standards: 18V to 27V max 27mA;

Impulse length $\geq 30\text{ms}$ + lead to terminal 21

Limit values: max 60V DC; max 30mA

Built-In Diode protection against wrong (parallel)

Warning: sealed case-Do not open meter !

