

Direct single-phase meter

MK-M

Electromechanical single-phase energy meter with direct connection for DIN rail mounting



Description

- Active energy meter (kW·h).
- 6-digit rotary mechanical display
- Metering verification LED
- It can meter up to 120 A, depending on the type
- It has a digital output with an optoisolated transistor

Application

- In applications with severe temperature conditions. The working life of the unit's mechanical display is not affected by high temperatures.
- Control of partial consumption in homes, commercial areas, etc. where it is important to know the consumption in each room or plot and produce accurate information during a determined period.

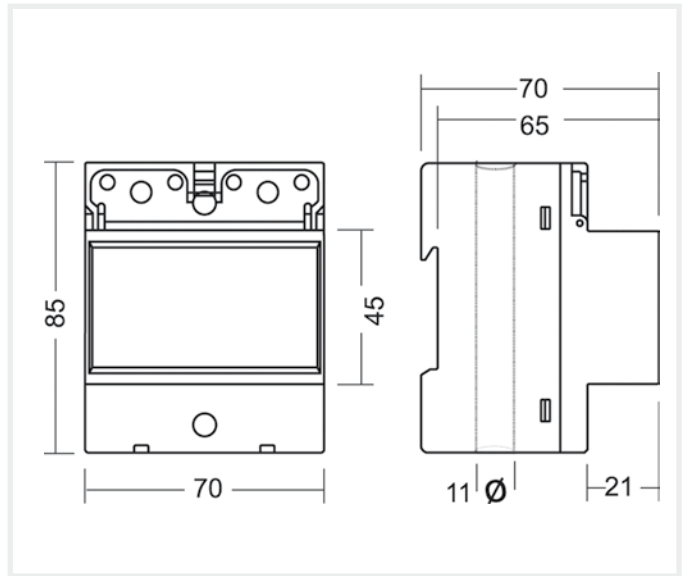
Features

Power circuit / Measurement	Single-phase 110 V - 230 Vac (-15...+10%)
Consumption	3 V·A
Frequency	50...60 Hz
Minimum current	300 mA / 600 mA (depending on type)
Nominal current	30 A / 60 A (depending on type)
Maximum current	60 A / 120 A (depending on type)
Maximum meter value	999,999 kW·h (Minimum resolution of the display 100 w.h)
Class/Accuracy	Class 1
Output transistor	Optoisolated (collector open) NPN
Maximum switching voltage	24 V dc
Maximum switching current	50 mA
Maximum Impulse frequency	1 impulse / s
Impulse duration	500 ms ON / 500 ms OFF
Energy output	100 impulses / kW·h (no programmable)
Build features	
Type of box	Self-extinguishing plastic
Degree of protection	Fitted unit (frontal): IP 51 Terminals: IP 20
Dimensions	70 x 80 x 75 mm (4 modules)
Weight	200 g
Ambient conditions	
operating temperature	0 ... +50 °C
Humidity	95% without condensation
Altitude	2000 m
Safety	
Category III-300 Vac EN 61010 . Protection to electric shock class II	
Standards	
EN 61036, EN 61010	

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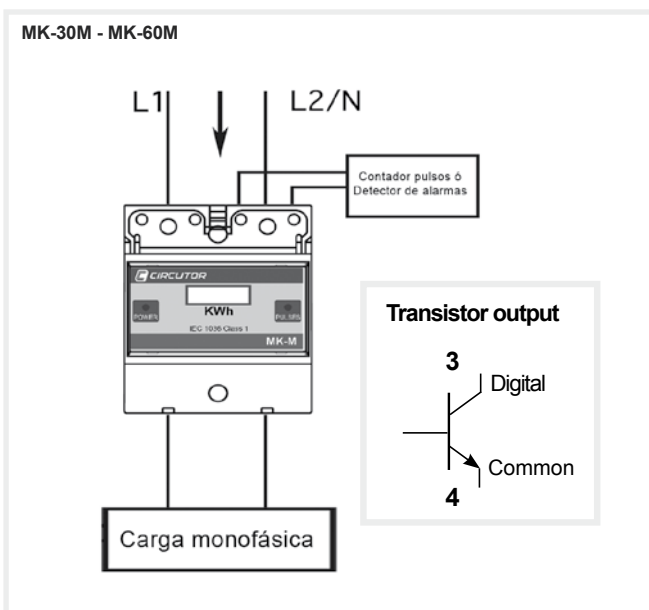
Dimensions



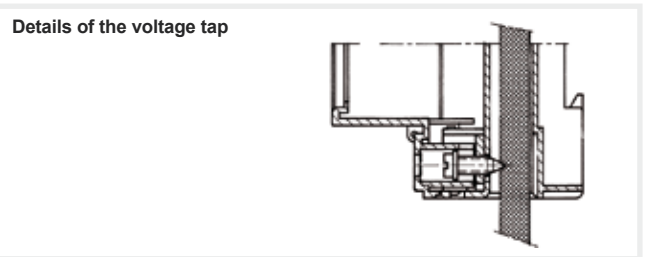
References

Parameters measured	input range	Quadrants	Rates	Digital output	DIN Modules	Type	Code
kW-h	0.3...0.60 A	2	1	1	4	MK-30 M	M30110
kW-h	0.6...120 A	2	1	1	4	MK-60 M	M30210

Connections



Diagram



Description of terminals

No. of Terminals	Description of terminals
1	Not used
2	Not used
3	RL1 Relay Output
4	Common Relay
5	L1 Voltage/Current input
6	N/L2 Voltage input