



Contador Circutor MK-LCD

Electronic single-phase meter for active energy, with direct connection for DIN rails. Other features include:

- Connection error indicator
- Current up to 120 A (depending on the type)
- RS-485 Communications, (depending on the type)
- 1 digital output with optoinsulated transistor
- Partial meters
- Displays instant parameters, such as the voltage, current and power.

Electrical energy meters for partial consumption: M.3

FEATURES

Power circuit / Measurement	Single-phase: 110 V - 230 Vac (-15+20%)			
Consumption	3 V·A			
Frequency	5060 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 10 W.h)			
Class/Accuracy	Class 1			
Output transistor	Optoinsulated (collector open) NPN			
Maximum switching voltage	24 Vdc			
Maximum switching current	50 mA			
Maximum Impulse frequency	1 impulse / s			
Duration of the Impulse	500 ms ON / 500 ms OFF			
Energy output	100 impulses / kW·h (no programmable)			
Communications				
Туре	RS-485			
Communication parameters	9600 bps, 8, n, 1			
Build features				
Type of box	Self-extinguishing plastic			
Degree of protection	IP 51 Terminals: IP 20			
Dimensions	70 x 80 x 75 mm (4 modules)			
Weight	200 g			



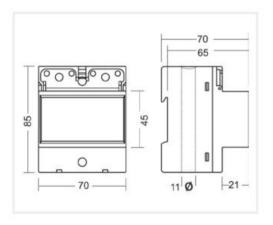


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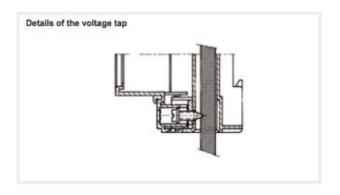
FEATURES

Ambient conditions				
Operating temperature	0 +50 °C			
Humidity	95% without condensation			
Altitude	2000 m			
Safety				
Category III-300 Vac EN 61010. Double-insulated electric shock protection class II				
Standards	EN 61010			

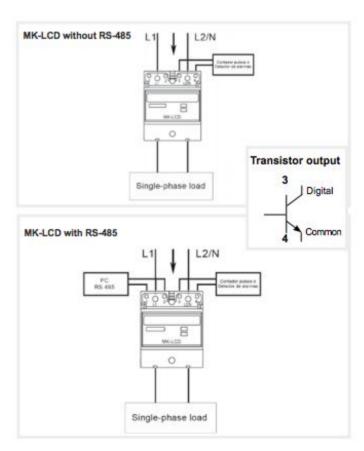
DIMENSIONS



DIAGRAM



CONNECTIONS







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REFERENCES

Parameters measured	Input range	Partial meters	Quadrants	Communications with the MODBUS (RTU) protocol	Rates	Digital output	DIN Modules	Туре	Code
kW·h, V, A, W	0.30.60 A	Yes	2	-	_	1	4	MK-30 LCD	M30120
kW·h, V, A, W	0.30.12 0 A	Yes	2	-	-	1	4	MK-60 LCD	M30220
kW·h, V, A, W	0.30.60 A	Yes	2	RS-485	-	1	4	MK-30 LCD-RS485	M30121
kW·h, V, A, W	0.30.12 0 A	Yes	2	RS-485	-	1	4	MK-60 LCD-RS485	M30221

DESCRIPTION OF TERMINALS

No. of Terminals	Description of terminals		
	MK-LCD without RS-485	MK-LCD with RS-485	
1	Not used	RS-485 (B)	
2	Not used	RS-485 (A)	
3	RL1 Relay Output	RL1 Relay Output	
4	Common Relay	Common Relay	
5	L1 Voltage/Current input	L1 Voltage/Current input	
6	N/L2 Voltage input	N/L2 Voltage input	