Direct current meter
direct / indirect

MK-DC / MK-SH-DC

Electronic energy meter of direct current
for DIN rail mounting

Description

Electronic energy meter of direct current for DIN rails.

Other features include:

- Voltage up to 800 Vdc.
- 4-digit display with 7 red segments, highly efficient.
- 2-module size.
- Parameters measured: V, A, kW, kW·h
- 1 digital output with opto-coupled transistor.

Application

- Energy metering of direct current that can be used to control the energy consumed and the energy generated in solar power farms.
- Energy control in telecommunications installations for subsequent management.

Features

Power supply circuit	115 Vac or 230 Vac (-10...+10%) (*)
Consumption	4 V·A
Frequency	40..0.70 Hz
Metering circuit	
Nominal voltage	5 ... 800 V
Consumption	0,6 V·A
Minimum current	0,5 A / 1 mV (depending on type)
Nominal current	30 A / 60 mV (depending on type)
Maximum current	30 A / 60 mV (depending on type)
Class	
Voltage accuracy	±0.5 % FS ±1 digit
Current accuracy	±0.5 % FS ±1 digit
Power accuracy	±1 % FS ±1 digit
Output transistor	Optoinsulated (collector open) NPN
Maximum switching voltage	35 V
Maximum switching current	50 mA
Maximum Impulse frequency	2 Hz
Duration of the Impulse	240 ms On / 250 ms OFF
Insulation	500 V dc (10^{10} Ω)
Ambient conditions	
Operating temperature	0 ... +65 ºC
Build features	
Type of box	Self-extinguishing ABS plastic
Degree of protection	Fitted unit (frontal): IP 54
Dimensions	36 x 85 x 63.8 mm
Weight	170 g
Standards	
IEC 1010, IEC 384, IEC 664, EN 50081-1, EN 50082-1, IEC/EN 62053-31	

(*) Other auxiliary power supply options:
9 ... 18 Vdc / 18 ... 36 Vdc / 36 ... 72 Vdc

Direct current meter
direct / indirect

MK-DC

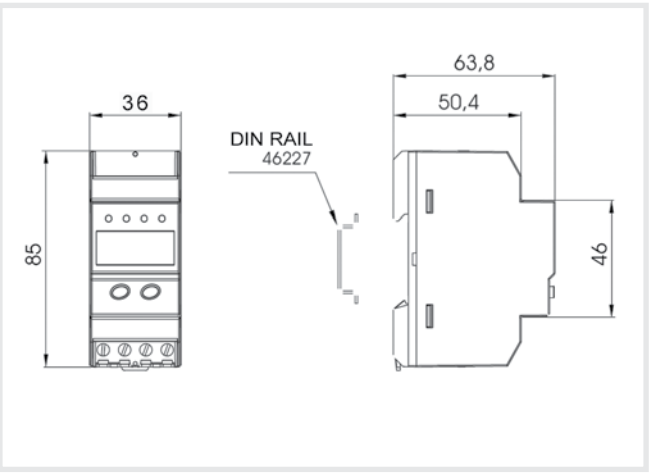
Electronic energy meter of direct current
for DIN rail mounting

Codification table

M	3	X	X	X	X	0	0	X
Code						Internal code		↑

Auxiliar supply	Standard(230 V)	0
	100 ... 115 Va.c.	1
	18 ... 36 Vd.c.	7

Dimensions

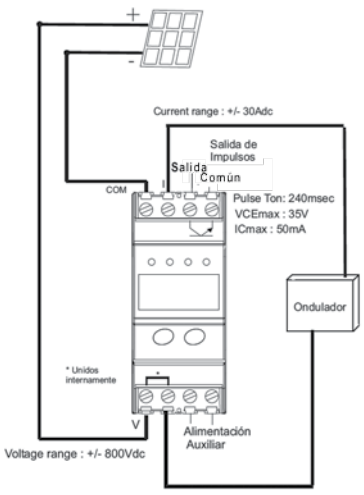


References

Parameters measured	Input current range	Voltage range	Digital output	DIN Modules	Type	Code
V, A, kW, kW·h	0,5 ... 30 A	0...800 V.c.c	1	2	**MK-30-DC**	**M30300**
V, A, kW, kW·h	1 ... 60 mV	0...800 V.c.c	1	2	**MK-SH DC**	**M30400**
V, A, kW, kW·h	0,5 ... 30 A	0...125 Vc.c.	1	2	**MK-30-DC M125 Vc.c.**	**M303000000D00**
V, A, kW, kW·h	1 ... 60 mV	0...125 Vc.c.	1	2	**MK-SH DC M125 Vc.c.**	**M304000000D00**

Connections

MK-30DC



MK-SH DC