

EDMk



EDMk MID



Electronic three-phase energy meter with indirect connection, assembly on DIN rail or adaptable to panels

Description

Electronic three-phase meter (active and reactive energy) with indirect connection for DIN rails or adaptable to a panel; 4 quadrants (measures the active (kW·h) and reactive (kvar·h) energy consumed and generated, both capacitive and inductive).

Other features include:

- Resettable partial meters
- Galvanic isolating transformers ITF
- $-\,\,$ RS-485 communication, depending on the type
- Two digital outputs with optoisolated transistor
- Informs of possible connection errors via the display.

Applications

- Used as a redundant energy meter to verify the energy allocated by the company. The unit is fully sealable and thus tamper-proof
- Billing meter: meters energy in various tariff categories (up to 3, depending on the type). Used to define the different billing periods or to control the production shifts.
- Cost control to obtain the consumption/unit ratio in industrial processes, etc.
 This type of control facilitates the definition of more precise cost prices.

Technical features

Power	230 Vac (-15%+10%) / 85265 Vac / 95300 Vdc					
circuit	Consumption	5 VA				
	Frequency	4565 Hz				
Measurement circuit	Rated voltage	300 Vac (P-N) / 520 Vac (P-P)				
	Frequency	4065 Hz 0,3 VA 0.3 VA in 5 A or 0.06 VA in 1 A				
	Consumption of the voltage circuit per phase					
	Consumption of the current circuit per phase					
	Nominal current/5 A or/1 A (isolated inpu ITF type)/250 mA mod. M					
	Minimum current	110 mA				
	Maximum current	1.2 /n				
Maximum meter value	9,999,999 kW					
Class	Class in active energy	Class 1 - EN 62053-21 , Class B - EN 50570-1 (mod. MID)				
	Class in reactive energy	Class 2 - EN 62053-23				
Output transistor	Optocoupled (collector open) NPN					
	Maximum operating voltage	24 Vdc				
	Maximum operating current	50 mA				
	Max. impulse frequency	10 imp/s (5 imp/s in manual mode)				
	Impulse duration (T on / T off)	50 ms on / 50 ms off				
	Output 1	Terminals 9-8				
	Output 2	Terminals 7-8				
Communications	Type	RS-485 (3 wires)				
	Communication parameters	1200-1920 bps, 7/8, no even odd, 1/2				
Environmental	Operating temperature	-20 °C+60 °C				
conditions	Humidity (without condensation)	5%95%				
	Maximum altitude	2,000 m				
Build features	Minimum display resolution	10 W·h				
	Type of box	V0 self-extinguishing plastic				
	Protection degree	Fitted unit (front panel): IP 51 Non-fitted unit (sides and rear cover): IP 31				
	Dimensions	85 x 52 x 70 mm (3 modules)				
	Weight	195 g				
Safety	Designed for CAT III 300/520 Vac installations, in accordance with EN 61010 . Double-insulated electric shock protection, class II					
Standards	IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, EN 61000-6-3, EN 61000-6-1, EN 61010-1					



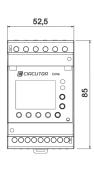
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References

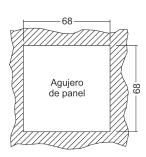
Tipo	Código	Salidas	Comunicaciones	MID	Transformador
EDMk-ITF-RS-485-C2	M31751	2	RS-485		/1 A ó/5 A
EDMk-ITF-RS-485-C MID	M317C4	1	RS-485	•	/1 A ó/5 A
EDMK-MC-ITF-RS-485-C2	M31781	2	RS-485	-	/250 mA

Dimensiones



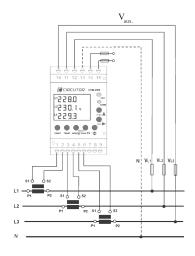


Dimensions of the drill hole on the panel, 68x68 mm, using the **M5ZZF1** accessory.

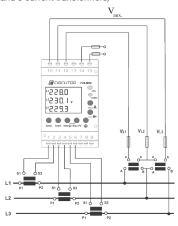


Connections

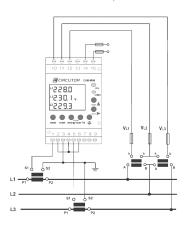
EDMk, 3 or 4 wires (low voltage)



EDMk, 3 wires (2 voltage transformers and 3 current transformers)



EDMk, 3 wires (2 voltage transformers and 3 current transformers)



Coding table

