Indirect three-phase meter



Electronic three-phase energy meter with indirect connection for DIN rails or adaptable to panels



Description

Electronic three-phase meter (active and reactive energy) with an 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:

- O Galvanic insulation transformers I
- RS-485 Communications, depending on the type
- Two digital outputs with optoinsulated transistor
- Informs about possible connection errors on the display

Application

	The state of the s					
Features						
Power supply circuit	230 \/2c / 15 +10%)					
	230 Vac (-15+10%) 5 V·A					
Consumption	5 V·A 450.65 Hz					
Frequency	450.05 HZ					
Metering circuit	200 Vas (share assistal)					
Nominal voltage	300 Vac (phase-neutral) 520 Vac (phase-phase)					
Frequency	450.65 Hz					
Consumption of the circuit, voltage per phase	0.3 V·A					
Consumption of the circuit, current per phase	0.3 V·A at 5 A or 0.06 V·A at 1 A					
Nominal current	/5 A or/1 A (ITF-type insulated input)					
Overload (permanent)	1.2 <i>I</i> _n					
Maximum meter value	9,999,999 kW					
Class						
Class in active energy Class in reactive energy	Class 1 - EN62053-21 Class 2 - EN62053-23					
Output transistor	Optoinsulated (collector open) NPN					
Maximum switching voltage	24 Vdc					
Maximum switching current	50 mA					
Max. Impulse frequency	10 impulse / s					
Duration of the Impulse	50 ms					
Output 1	Terminals 9-8					
Output 2	Terminals 7-8					
Ambient conditions						
Operating temperature	-20 +60 °C					
Humidity (non-condensing)	5 95 %					
Build features						
Minimum display resolution	10 W·h					
Type of box	V0 self-extinguishing plastic					
Degree of protection	Fitted unit (frontal): IP 51 Non-fitted unit (sides and rear cover): IP 31					
Dimensions	85 x 52 x 70 mm (3 modules)					
Weight	195 g					
Safety						
Category III EN-61010-1. Protection to electric shock class II						
Standards						

EN 62052-11, EN 62053-21, EN 62053-23, EN 61010-1



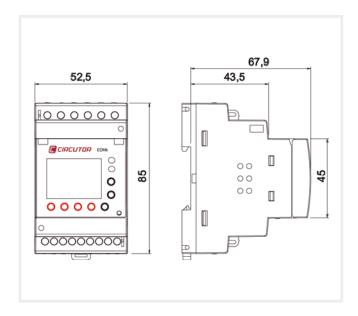
Indirect three-phase meter

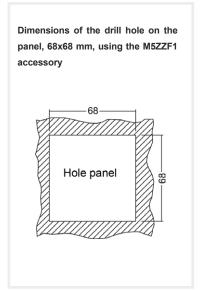
EDMk

Electronic three-phase energy meter with indirect connection for DIN rail mounting



Dimensions

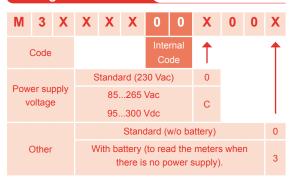




References

Parameters measured	Metering range	Partial meters	Quadrants	Communications with the MODBUS (RTU) protocol	Rates	Digital output	DIN Modules	Туре	Code
kW·h, kVarL·h, kvarC·h	2 mA/1 A or 5 A	Yes	4	-	1	2	3	EDMk-ITF-C2	M31741
kW·h, kVarL·h, kvarC·h	2 mA/1 A or 5 A	Yes	4	-	3	2	3	EDM3k-ITF-C2	M31743
kW·h, kVarL·h, kvarC·h	2 mA/1 A or 5 A	Yes	4	RS-485	1	2	3	EDMk-ITF-RS485	M31751

Coding table



Indirect three-phase meter

EDMk

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Connections

