

Catalogue No: **EM110DINAV81XO1X**

EM110 DIRECT 45A SINGLE DIN BASIC kWh METER

Energy Management and Building Automation > Energy Management and Metering > Power and Multifunction Meters > Carlo Gavazzi Power and Multifunction Meters > Carlo Gavazzi Energy Meters > EM100 Series



Representative Photo Only
(actual product may vary based on configuration selections)

EM110 DIRECT 45A SINGLE DIN BASIC kWh METER

- Quick and easy to install
- Compact modern design
- High accuracy monitoring and measurement to IEC 62053-21
- Easy to read and configure
- Options for remote communication

SPECIFICATIONS

Component Type Metering	Digital Energy / Power Meter
Meter Type(s)	Energy
Measurement parameters	A
Display Technology	Electromechanical
Refresh Time	1 s
Number of Tariff Management Inputs	0 input qty
Input Frequency, Nom	50 / 60 Hz
Input Frequency, Max	60 Hz
Input Frequency, Min	50 Hz
Input Range(s)	0.5 ... 45A
Accuracy, Voltage	0.5 +/- %
Accuracy, Current	0.5 +/- %
Starting Current	0.02 A
In, Rated Current	5 A
Ie, Rated Operational Current, max	45 A,max
Input current (A)	5 A
Un, Nominal Voltage	230 V
Number of Outputs	1 qty
Output Type	Pulse Output
Pulse Duration	100 ms
Output pulse	1-open collector
Accuracy Class, kWh, IEC 62053-21	1 IEC 62053-21
Unom, Supply Voltage, AC, Nom	230 V AC
Sampling Frequency	4096 Hz
Power Consumption, Max	1 W
Voltage, Overload, 0.5s (rms)	0.46 kV
Voltage, Overload, Continuous	0.276 kV
Current, Overload Capacity, Continuous	0.045 kA

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Current, Overload Capacity, 10s (max)	1.35 kA
Dielectric Strength	4000 VAC RMS for 1 minute
Ui, Rated Insulation Voltage	4000 V (rms)
Mounting	DIN Rail Monobloc
Material, Body / Housing	Noryl material
Operating Temperature, Min	-20 °C min
Operating Temperature, Max	65 °C max
Storage Temperature, Min	-30 °C min
Storage Temperature, Max	80 °C max
Installation Category	III
Relative humidity, min	0 %RH
Tightening Torque, Min	0.4 Nm
Tightening Torque, Max	1.1 Nm
Connection Mode	Direct Connect mode
Terminal Type	Screw Terminal(s)
IP Rating, Front	IP51
IP Rating, Terminals	IP20
Insulation Class	III
Width	17 mm
Height	90 mm
Depth	60 mm
Weight	0.075 kg
Standards Compliance	IEC 60664 IEC 61010-1 EN 61010-1 EN 62052-11 EN 62053-21 EN 50470-3
Certifications	CE C-UL-US

REFERENCES	
IECEx Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	-
User Manual:	-
Manufacturer Datasheet:	EM110_Manufacturer Datasheet
Manufacturer Catalogue & Product Selection:	-