



Single-phase
energy meters
DMED121
single-phase
2

Product designation

Product type designation

Type

DIN rail module number

Auxiliary supply U_s

Operational frequency

min	Hz	50
max	Hz	60

Power consumption

Max	VA	4.8
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Power dissipation Max

W	1.4
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Measuring voltage inputs

Rated voltage (U_e)

phase-neutral	VAC	110...120 / 220...240
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Operating voltage range

phase-neutral	VAC	184...264
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Connection method

Direct

Current

IEC maximum (I_{max})

A	63
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IEC minimum (I_{min})

A	0.5
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IEC rated (I_{ref-Ib})

A	10
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IEC start (I_{st})

mA	40
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Transition (I_{tr})

A	1
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Accuracy

Active energy	Class 1 (IEC/EN 62053-21)
Reactive energy	Class 2 (IEC/EN 62053-23)

RS485 serial interface

Baud rate

bps	Programmable 1200...38400
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Insulations

Rated insulation voltage U_i IEC/EN

V	250
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Rated impulse withstand voltage U_{imp}

kV	6
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Operating frequency withstand voltage

kV	4
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Mechanical features

Housing type

Polyamide

Terminals type

Fixed

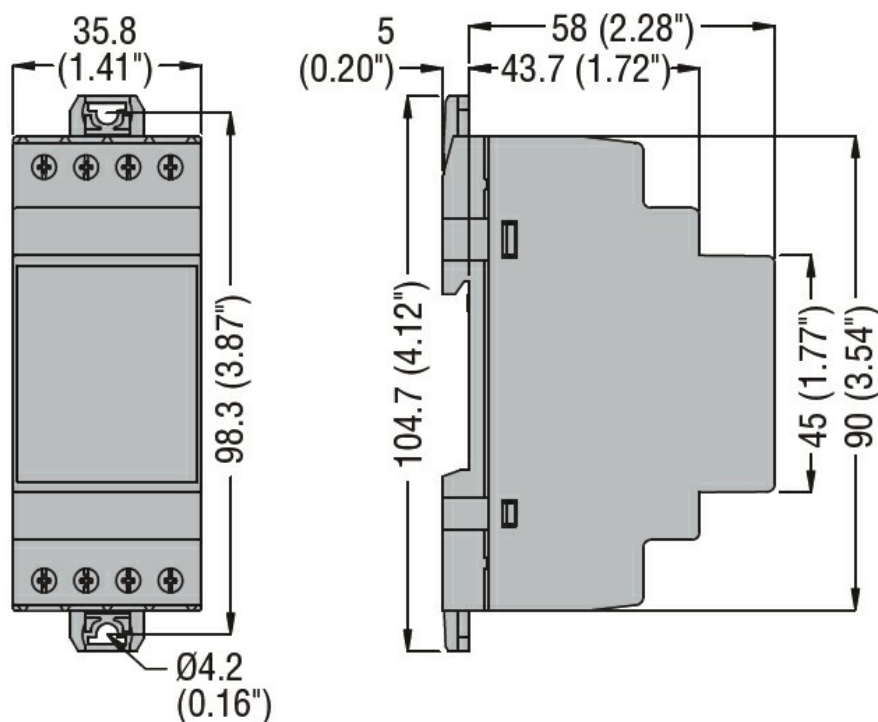
Conductor cross section

min	mm ²	2.5
Max	mm ²	16
min	AWG	14
Max	AWG	6;10

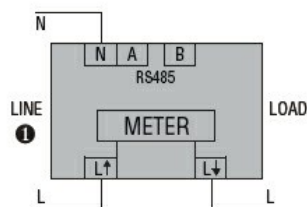
Tightening torque (Max)

	Nm	2
	lbin	17.7
Fixing		Din rail
Weight	g	148
Ambient conditions		
Temperature		
Operating temperature		
	min	°C -25
	max	°C +55
Storage temperature		
	min	°C -25
	max	°C +70
Relative humidity	%	<80
Maximum Pollution degree		2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA 22.2 n°61010-1

IEC/EN 61000-6-2

IEC/EN 61000-6-3

IEC/EN 61010-1

UL61010-1

Certificates

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter