



Product designation

Product type designation

Type

DIN rail module number

Single-phase  
energy meters  
DMED100T1  
single-phase  
1

### Auxiliary supply $U_s$

Operational frequency

min	Hz	50
max	Hz	60

Power consumption

Max	VA	7
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Power dissipation Max

W	0.45
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### Measuring voltage inputs

Rated voltage ( $U_e$ )

phase-neutral	VAC	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	40
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IEC minimum ( $I_{min}$ )

A	0.25
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IEC rated ( $I_{ref-Ib}$ )

A	5
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IEC start ( $I_{st}$ )

mA	20
----	----

Transition ( $I_{tr}$ )

A	0.5
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### Accuracy

Active energy

Class 1 (IEC/EN  
62053-21)

Reactive energy

Class 2 (IEC/EN  
62053-23)

### Output characteristics

LED Pulse rate

pulse/kWh	1000
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LED Pulse duration

ms	30
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Static output pulse rate

pulse/kWh	10
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Static output pulse duration

ms	100
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Static output external voltage

VDC	10...30
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Static outputs Maximum current

mA	50
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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 <sup>2</sup>	1.5
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Max	mm <sup>2</sup>	10
min	AWG	16
Max	AWG	6

Tightening torque (Max)

Nm	1.5
lbin	14

Fixing

Din rail

Weight

g 86

### 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

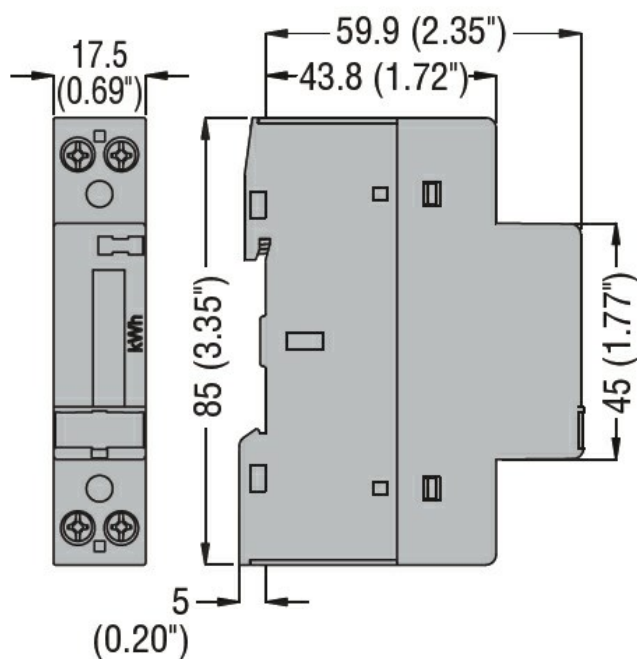
Mechanical environment

Class M1

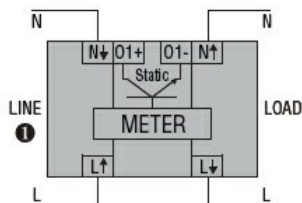
Magnetic environment

Class E2

### Dimensions



### Wiring diagrams



### Certifications and compliance

Compliance

CSA 22.2 n°61010-1

EN 50470-1

IEC/EN 61010-1

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UL61010-1

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Certificates

cULus

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EAC

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RCM

ETIM classification

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter