



Single-phase
energy meters
DMED100T1
single-phase
1

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	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
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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 ²	1.5
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Max	mm ²	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

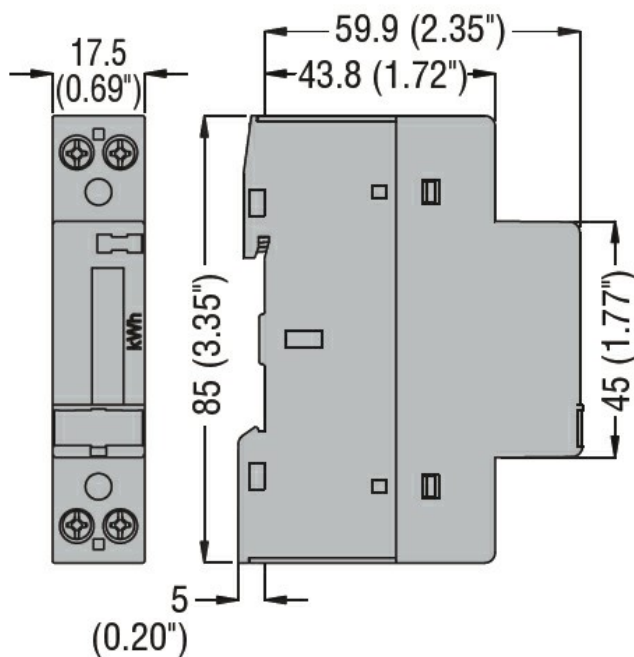
Mechanical environment

Class M1

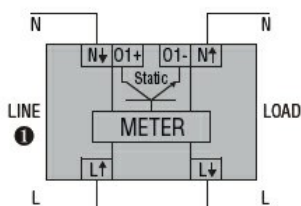
Magnetic environment

Class E2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA 22.2 n°61010-1

EN 50470-1

IEC/EN 61010-1

UL61010-1

Certificates

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter