



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
-----	----	---

Power dissipation Max

W	0.45
---	------

Measuring voltage inputs

Rated voltage (U_e)

phase-neutral	VAC	220...240
---------------	-----	-----------

Operating voltage range

phase-neutral	VAC	184...264
---------------	-----	-----------

Connection method

Direct

Current

IEC maximum (I_{max})

A	40
---	----

IEC minimum (I_{min})

A	0.25
---	------

IEC rated (I_{ref-Ib})

A	5
---	---

IEC start (I_{st})

mA	20
----	----

Transition (I_{tr})

A	0.5
---	-----

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
-----------	------

LED Pulse duration

ms	30
----	----

Static output pulse rate

pulse/kWh	10
-----------	----

Static output pulse duration

ms	100
----	-----

Static output external voltage

VDC	10...30
-----	---------

Static outputs Maximum current

mA	50
----	----

Insulations

Rated insulation voltage U_i IEC/EN

V	250
---	-----

Rated impulse withstand voltage U_{imp}

kV	6
----	---

Operating frequency withstand voltage

kV	4
----	---

Mechanical features

Housing type

Polyamide

Terminals type

Fixed

Conductor cross section

min	mm ²	1.5
-----	-----------------	-----

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

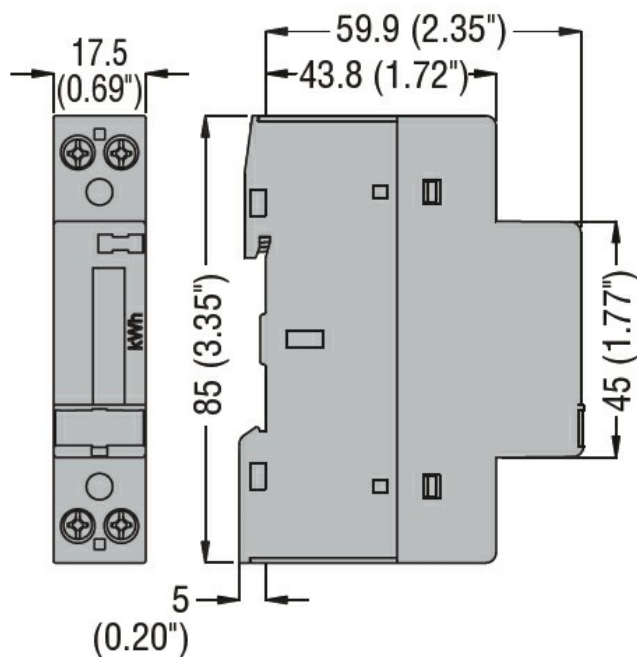
Mechanical environment

Class M1

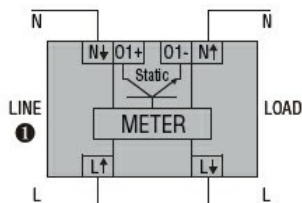
Magnetic environment

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