



Product designation

Product type designation

Type

DIN rail module number

Single-phase  
energy meters  
DMED110T1A120  
single-phase  
1

#### Auxiliary supply $U_s$

Operational frequency

max Hz 60

Power consumption

Max VA 7

Power dissipation Max

W 0.45

#### Measuring voltage inputs

Rated voltage ( $U_e$ )

phase-neutral VAC 110...120

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 1-10-10-1000  
programmable

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<sup>2</sup> 1.5

|     |                 |    |
|-----|-----------------|----|
| 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 90

### 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

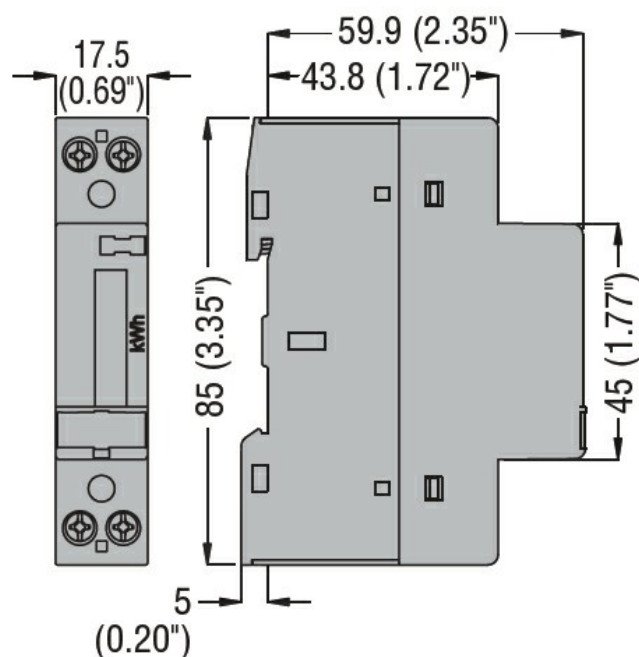
Mechanical environment

Class M1

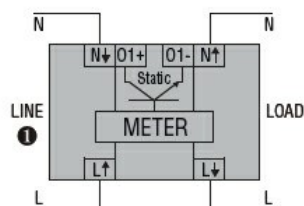
Magnetic environment

Class E1

### 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