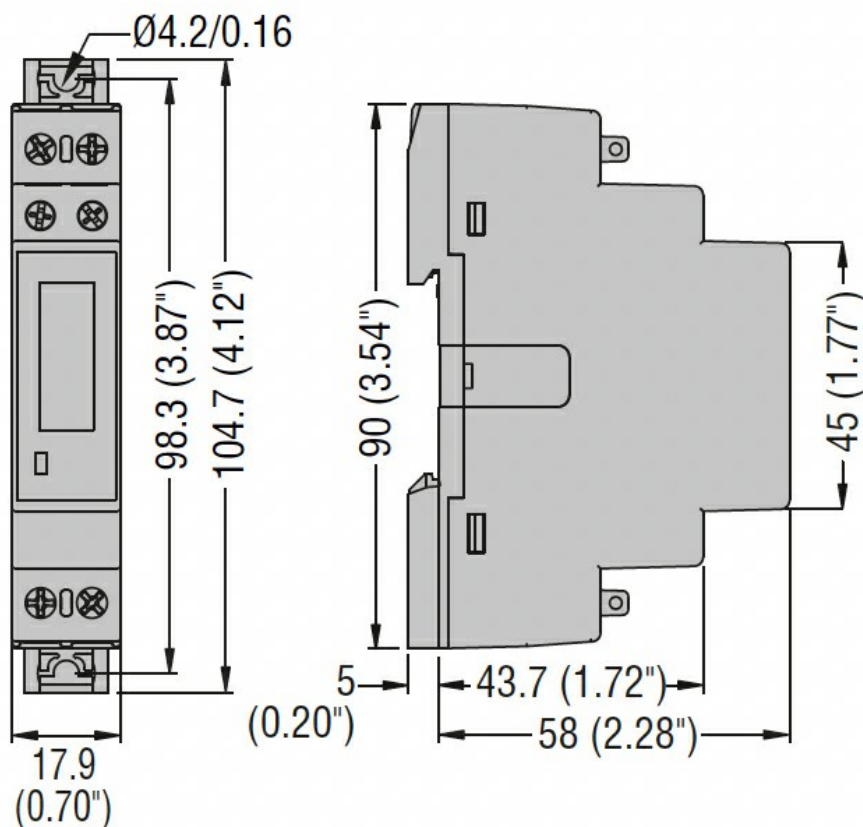




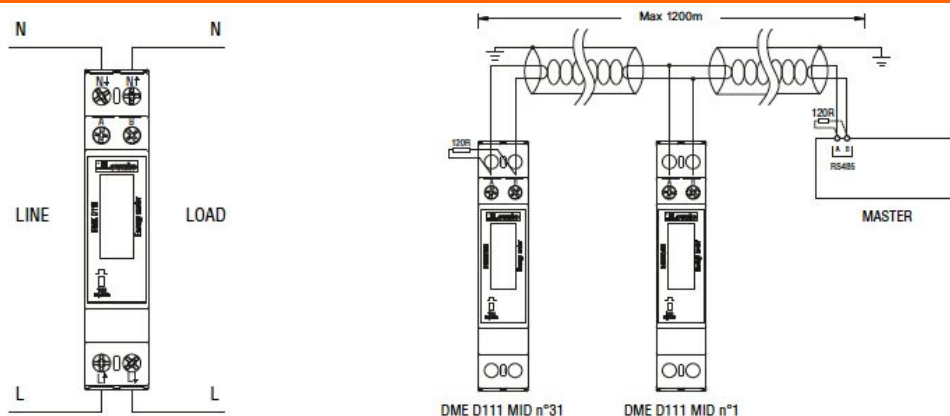
|   |                            |                 |                           |
|---|----------------------------|-----------------|---------------------------|
| Product designation                       | Single-phase energy meters |                 |                           |
| Product type designation                  | DMED111MID                 |                 |                           |
| Type                                      | single-phase               |                 |                           |
| DIN rail module number                    | 1                          |                 |                           |
| Auxiliary supply $U_s$                    |                            |                 |                           |
| Operational frequency                     | min                        | Hz              | 50                        |
| Power consumption                         | Max                        | VA              | 7                         |
| Power dissipation Max                     |                            | W               | 0.45                      |
| Measuring voltage inputs                  |                            |                 |                           |
| Rated voltage ( $U_e$ )                   | phase-neutral              | VAC             | 230                       |
| 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 B (EN 50470-3)      |
|   | Reactive energy            |                 | Class 2 (IEC/EN 62053-23) |
| RS485 serial interface                    |                            |                 |                           |
| Baud rate                                 |                            | bps             | Programmable 1200...38400 |
| 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       |
| <b>Ambient conditions</b> |     |      |          |
| 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

EN50470-1

EN50470-3

TR 50579

Certificates

MID (modulo B + D)

RCM

**ETIM classification**

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter