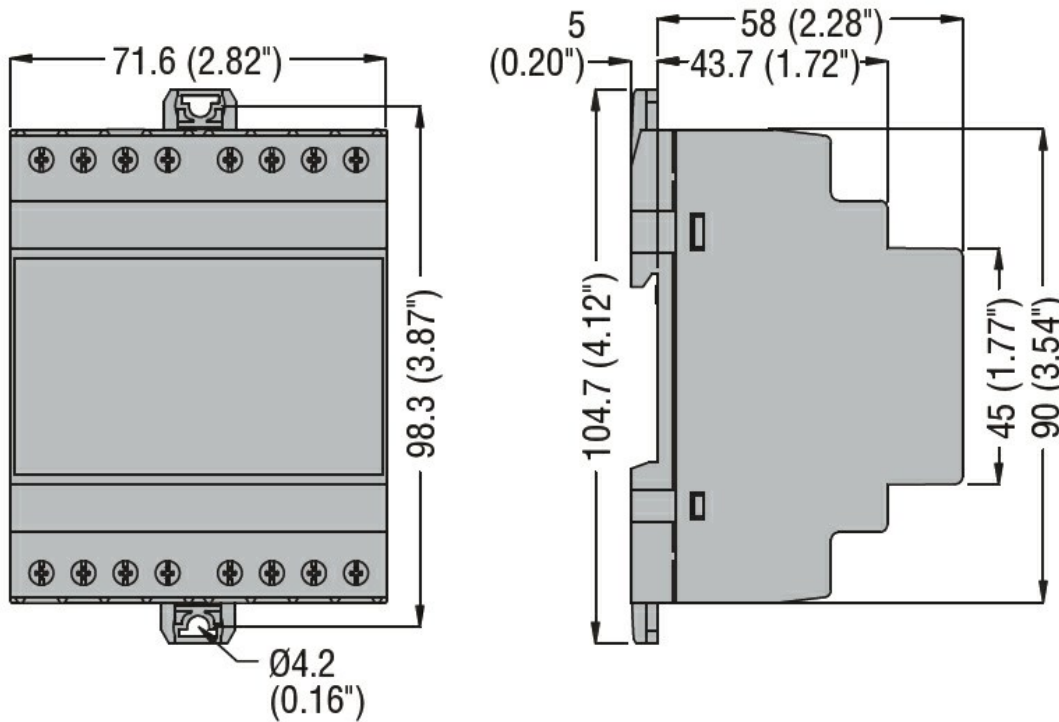




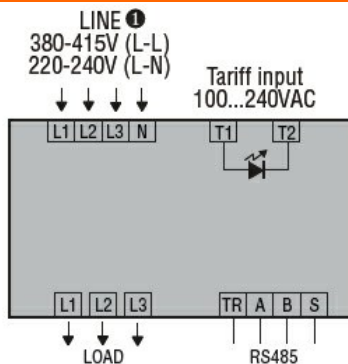
|  |                           |                 |                                 |
|--|---------------------------|-----------------|---------------------------------|
| Product designation  | Three-phase energy meters |                 |                                 |
| Product type designation   | DMED301                   |                 |                                 |
| Type   | Three-phase + neutral     |                 |                                 |
| DIN rail module number   | 4                         |                 |                                 |
| <b>Auxiliary supply U<sub>s</sub></b>                              |                           |                 |                                 |
| Operational frequency  | min                       | Hz              | 50                              |
|  | max                       | Hz              | 60                              |
| Power consumption  | Max                       | VA              | 20                              |
| Power dissipation Max  |                           | W               | 1.35                            |
| <b>Measuring voltage inputs</b>                                    |                           |                 |                                 |
| Rated voltage (U <sub>e</sub> )                                    | phase-phase               | VAC             | 380...415                       |
|  | phase-neutral             | VAC             | 220...240                       |
| Operating voltage range  | phase-phase               | VAC             | 323...456                       |
|  | phase-neutral             | VAC             | 187...264                       |
| Connection method  | Direct                    |                 |                                 |
| <b>Current</b>   |                           |                 |                                 |
| IEC maximum (I <sub>max</sub> )                                    |                           | A               | 80                              |
| IEC minimum (I <sub>min</sub> )                                    |                           | A               | 0.5                             |
| IEC rated (I <sub>ref-Ib</sub> )                                   |                           | A               | 10                              |
| IEC start (I <sub>st</sub> )                                       |                           | mA              | 60                              |
| Transition (I <sub>tr</sub> )                                      |                           | A               | 1                               |
| <b>Accuracy</b>  |                           |                 |                                 |
| Measurement conditions (T +23°C ±1°C / Rel. Humidity 45 ±15% R.H.) | active energy             |                 | Class 1<br>(IEC/EN/BS 62053-21) |
| <b>RS485 serial interface</b>                                      |                           |                 |                                 |
| Baud rate  |                           | bps             | Programmable<br>1200...38400    |
| <b>Insulations</b>   |                           |                 |                                 |
| Rated insulation voltage U <sub>i</sub> IEC/EN                     |                           | V               | 250                             |
| Rated impulse withstand voltage U <sub>imp</sub>                   |                           | kV              | 6                               |
| Operating frequency withstand voltage                              |                           | kV              | 4                               |
| <b>Mechanical features</b>   |                           |                 |                                 |
| Housing type   | Polyamide                 |                 |                                 |
| Terminals type   | Fixed                     |                 |                                 |
| Conductor cross section  | min                       | mm <sup>2</sup> | 2.5                             |
|  | Max                       | mm <sup>2</sup> | 16                              |
|  | min                       | AWG             | 16                              |

|                           |     |      |          |
|---------------------------|-----|------|----------|
|                           | Max | AWG  | 6        |
| Tightening torque (Max)   |     | Nm   | 2        |
|                           |     | lbin | 14       |
| Fixing                    |     |      | Din rail |
| Weight                    |     | g    | 360      |
| <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        |

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

IEC/EN 50470-1

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IEC/EN 61010-1

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IEC/EN 61010-2-030

Certificates

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EAC

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RCM

ETIM classification

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter