



Product designation

Product type designation

Type

DIN rail module number

Three-phase  
energy meters  
DMED300T2  
Three-phase +  
neutral  
4

Auxiliary supply  $U_s$

Operational frequency

|     |    |    |
|-----|----|----|
| min | Hz | 50 |
| max | Hz | 60 |

Power consumption

|     |    |    |
|-----|----|----|
| Max | VA | 20 |
|-----|----|----|

Power dissipation Max

|   |      |
|---|------|
| W | 1.35 |
|---|------|

Measuring voltage inputs

Rated voltage ( $U_e$ )

|               |     |           |
|---------------|-----|-----------|
| 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

Current

IEC maximum ( $I_{max}$ )

|   |    |
|---|----|
| A | 80 |
|---|----|

IEC minimum ( $I_{min}$ )

|   |     |
|---|-----|
| A | 0.5 |
|---|-----|

IEC rated ( $I_{ref-Ib}$ )

|   |    |
|---|----|
| A | 10 |
|---|----|

IEC start ( $I_{st}$ )

|    |    |
|----|----|
| mA | 60 |
|----|----|

Transition ( $I_{tr}$ )

|   |   |
|---|---|
| A | 1 |
|---|---|

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 | 1-10-100-1000 programmable |
|-----------|----------------------------|

Static output pulse duration

|    |  |
|----|--|
| ms | 100 for 1-10-10 pulse; 60 for 1000 pulse |
|----|--|

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 |
|----|---|

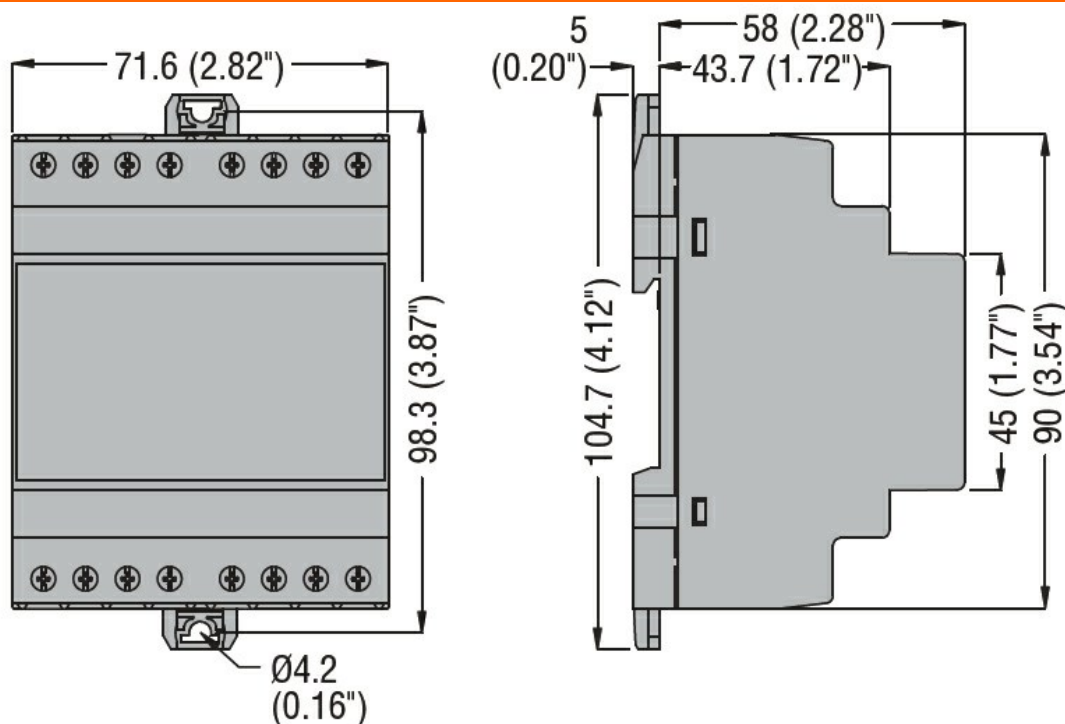
### Mechanical features

|                         |           |      |      |
|-------------------------|-----------|------|------|
| Housing type            | Polyamide |      |      |
| Terminals type          | Fixed     |      |      |
| Conductor cross section | min       | mm²  | 2.5  |
|                         | Max       | mm²  | 25   |
|                         | min       | AWG  | 14   |
|                         | Max       | AWG  | 4    |
| Tightening torque (Max) |           | Nm   | 2    |
|                         |           | lbin | 17.7 |
| Fixing                  | Din rail  |      |      |
| Weight                  |           | g    | 360  |

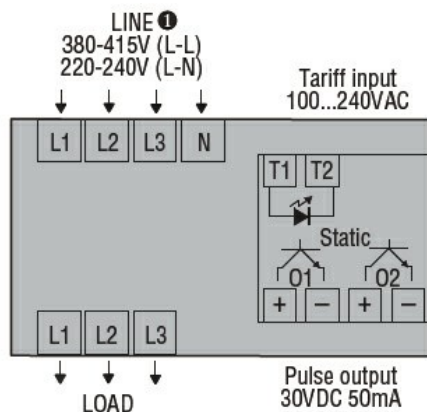
### Ambient conditions

|                          |                       |    |     |
|--------------------------|-----------------------|----|-----|
| Temperature              | Operating temperature |    |     |
|                          | min                   | °C | -25 |
|                          | max                   | °C | +55 |
|                          | Storage temperature   |    |     |
|                          | min                   | °C | -25 |
|                          | max                   | °C | +70 |
| Relative humidity        |                       | %  | <80 |
| Maximum Pollution degree | 2                     |    |     |

### Dimensions



### Wiring diagrams



## Certifications and compliance

### Compliance

IEC/EN 50470-1  
IEC/EN 61010-1  
IEC/EN 61010-2-030

### Certificates

EAC  
RCM

## ETIM classification

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter