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|---------------------------------------|---------------------------|---------------------------|---------------------------|
| Product designation | Three-phase energy meters | | |
| Product type designation | DMED301MID7 | | |
| Type | Three-phase + neutral | | |
| DIN rail module number | 4 | | |
| Auxiliary supply Us | | | |
| Operational frequency | min | Hz | 50 |
| Power consumption | Max | VA | 20 |
| Power dissipation Max | | W | 1.35 |
| Measuring voltage inputs | | | |
| Rated voltage (Ue) | phase-phase | VAC | 400 |
| | phase-neutral | VAC | 230 |
| Operating voltage range | phase-phase | VAC | 323...456 |
| | phase-neutral | VAC | 187...264 |
| Connection method | Direct | | |
| Current | | | |
| IEC maximum (Imax) | | A | 80 |
| IEC minimum (Imin) | | A | 0.5 |
| IEC rated (Iref-Ib) | | A | 10 |
| IEC start (Ist) | | mA | 40 |
| Transition (Itr) | | A | 1 |
| 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 Ui IEC/EN | | V | 250 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operating frequency withstand voltage | | kV | 4 |
| Mechanical features | | | |
| Housing type | Polyamide | | |
| Terminals type | Fixed | | |
| Conductor cross section | min | mm ² | 2.5 |
| | Max | mm ² | 16 |
| | min | AWG | 16 |
| | Max | AWG | 6 |

Tightening torque (Max)

Nm 2
lbin 17.7

Fixing

Din rail

Weight

g 360

Ambient conditions

Temperature

Operating temperature

min °C -25
max °C +70

Storage temperature

min °C -25
max °C +70

Relative humidity

% <80

Maximum Pollution degree

2

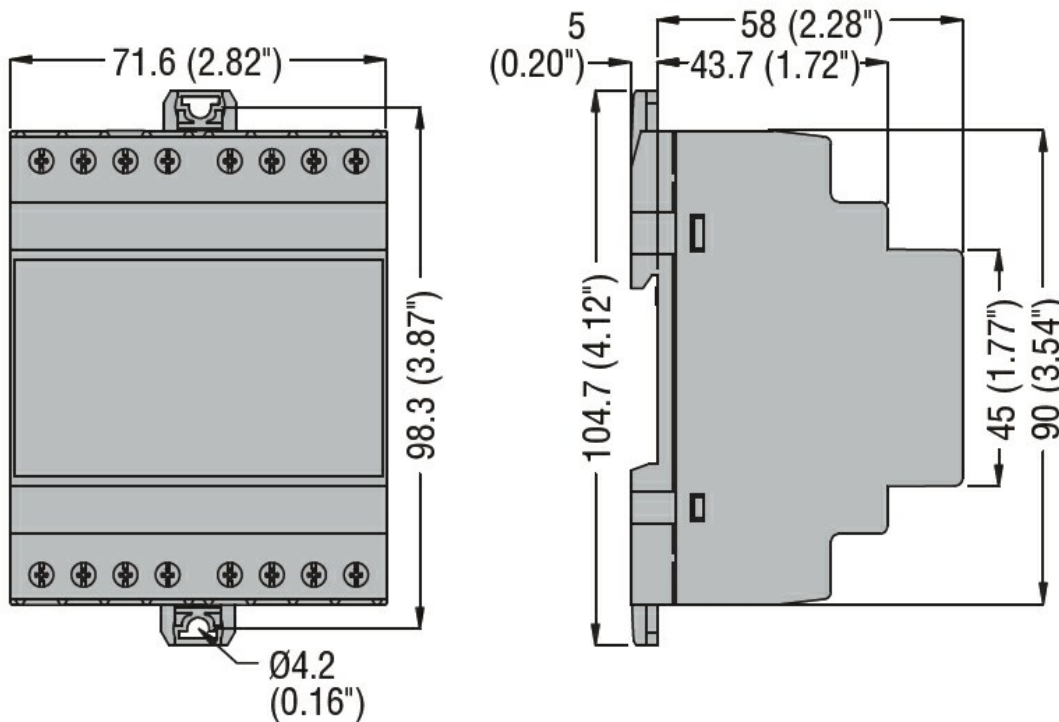
Mechanical environment

Class M1

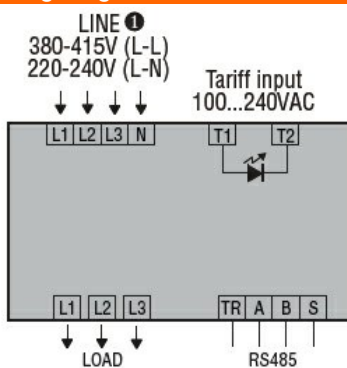
Magnetic environment

Class E2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

BS EN 50470-3
IEC/EN/BS 62052-11
IEC/EN/BS 62052-31
VDE-AR-E 2418-3-100

Certificates

EAC
MID
MIR

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter