



Product designation	Three-phase energy meters		
Product type designation	DMED301		
Type	Three-phase + neutral		
DIN rail module number	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			
Measurement conditions ($T +23^{\circ}C \pm 1^{\circ}C$ / Rel. Humidity $45 \pm 15\%$ R.H.)	active energy		Class 1
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 ²	2.5
	Max	mm ²	16
	min	AWG	16
	Max	AWG	6

Tightening torque (Max)

Nm 2
lbin 14

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

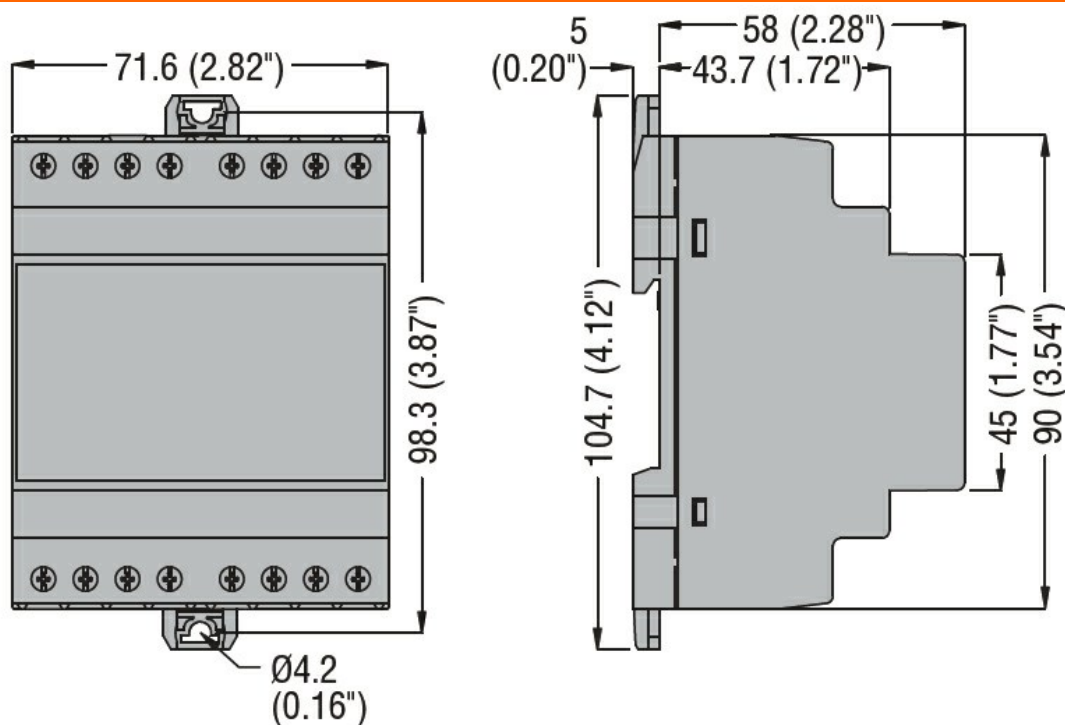
Relative humidity

% <80

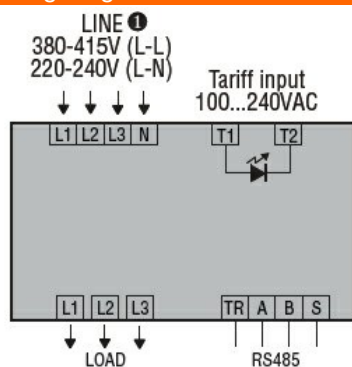
Maximum Pollution degree

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