



Three-phase energy meters
DMED301UL
Three-phase + neutral
4

Product designation

Product type designation

Type

DIN rail module number

Auxiliary supply Us

Operational frequency

max Hz 60

Power consumption

Max VA 20

Power dissipation Max

W 1.35

Measuring voltage inputs

Rated voltage (Ue)

phase-phase VAC 240
phase-neutral VAC 120

Operating voltage range

phase-phase VAC 204...276
phase-neutral VAC 102...138

Voltage inputs operational frequency

min Hz 54
max Hz 66

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 1 (IEC/EN 62053-21)
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

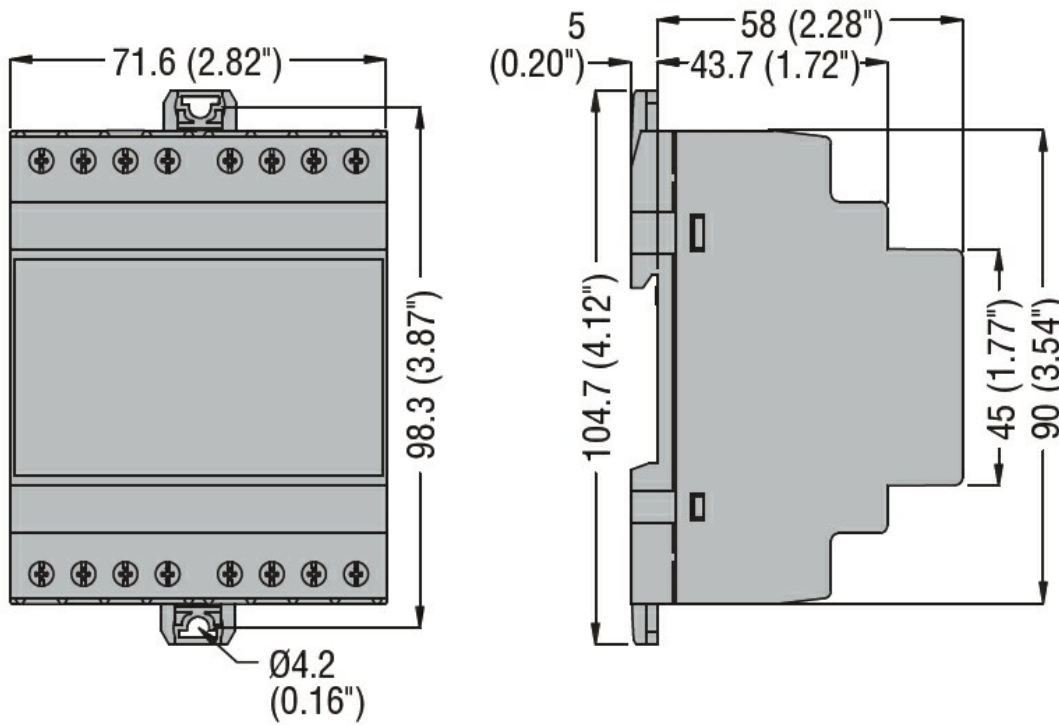
Fixed

Conductor cross section

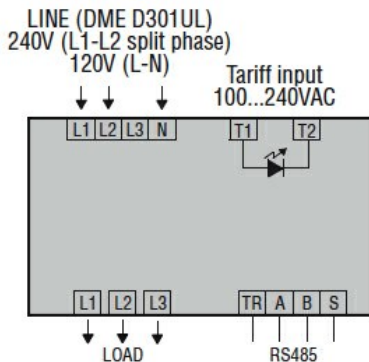
min mm² 2.5

	Max	mm ²	25
	min	AWG	14
	Max	AWG	4
<hr/>			
Tightening torque (Max)		Nm	2
		lbin	17.7
<hr/>			
Fixing		Din rail	
<hr/>			
Weight		g	360
<hr/>			
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-25
	max	°C	+55
<hr/>			
Storage temperature			
	min	°C	-25
	max	°C	+70
<hr/>			
Relative humidity		%	<80
<hr/>			
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

cULus
EAC
RCM

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter