



Product designation	Single-phase energy meters		
Product type designation	DMED100T1MID		
Type	single-phase		
DIN rail module number	1		
Auxiliary supply U_s			
Operational frequency	min	Hz	50
Power consumption	Max	VA	7
Power dissipation Max		W	0.45
Measuring voltage inputs			
Rated voltage (U_e)	phase-neutral	VAC	230
Operating voltage range	phase-neutral	VAC	184...264
Connection method	Direct		
Current			
IEC maximum (I_{max})		A	40
IEC minimum (I_{min})		A	0.25
IEC rated (I_{ref-Ib})		A	5
IEC start (I_{st})		mA	20
Transition (I_{tr})		A	0.5
Accuracy			
	Active energy		Class B (EN 50470-3)
	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
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	mm ²	1.5

Max	mm ²	10
min	AWG	16
Max	AWG	6

Tightening torque (Max)

Nm	1.5
lbin	14

Fixing

Din rail

Weight

g 86

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

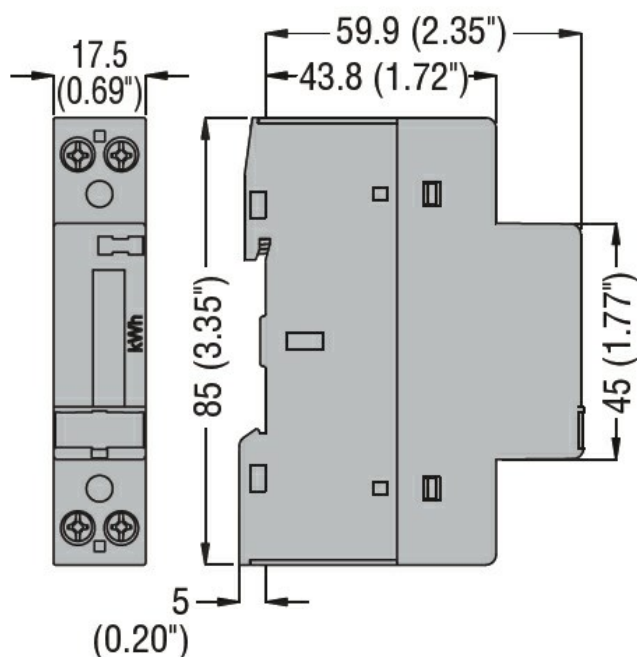
Mechanical environment

Class M1

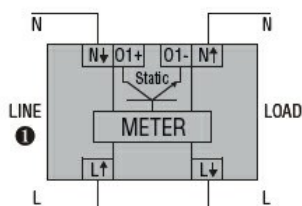
Magnetic environment

Class E2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

EN50470-1

EN50470-3

TR 50579

Certificates

EAC

MID (moduli B + D)

RCM

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter