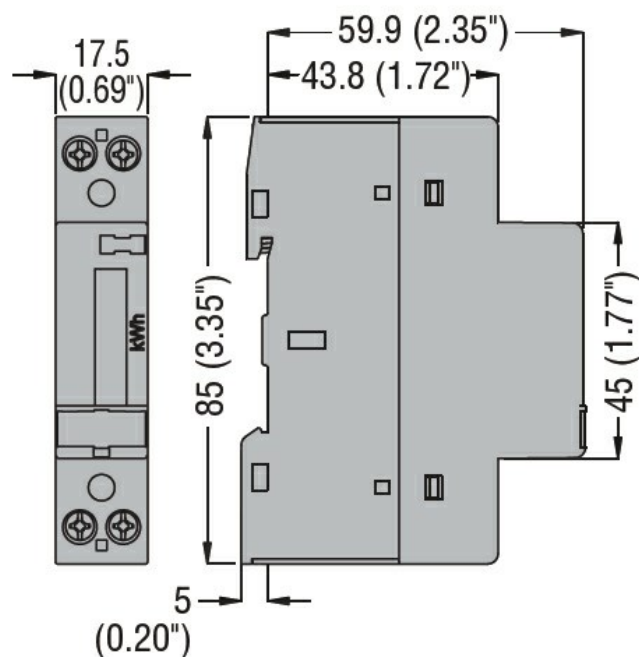




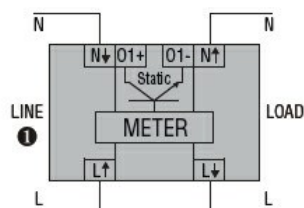
Product designation	Single-phase energy meters		
Product type designation	DMED100T1A120		
Type	single-phase		
DIN rail module number	1		
Auxiliary supply U_s			
Operational frequency	max	Hz	60
Power consumption	Max	VA	7
Power dissipation Max		W	0.45
Measuring voltage inputs			
Rated voltage (U_e)	phase-neutral	VAC	110...120
Operating voltage range	phase-neutral	VAC	93...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 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		10
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 E1

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA 22.2 n°61010-1

EN 50470-1

IEC/EN 61010-1

UL61010-1

Certificates

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter