DMED111

Energy meter, single-phase, non expandable, digital with LCD display, 40A direct connection, 1U, RS485 interface, multi-measurements, 220...240VAC

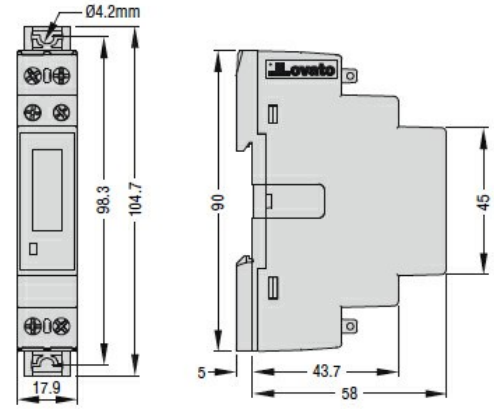
Product designation			Single-phase energy meters
Product type designation			DMED111
Type			single-phase
DIN rail module number			1
Auxiliary supply Us			
Operational frequency			
	min	Hz	50
	max	Hz	60
Power consumption			
	Max	VA	1
Power dissipation Max		W	0.4
Measuring voltage inputs			
Rated voltage (Ue)			
	phase-neutral	VAC	110...120 / 220…240
Operating voltage range			
	phase-neutral	VAC	93…264
Connection method			Direct
Current			
IEC maximum (Imax)		A	40
IEC minimum (Imin)		A	0.25
IEC rated (Iref-Ib)		A	5
IEC start (Ist)		mA	20
Transition (Itr)		A	0.5
Accuracy			
Measurement conditions (T +23°C ±1°C / Rel. Humidity 45 ±15% R.H.)			
	active energy		Class 1/B
	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	1.5
	Max	mm²	10
	min	AWG	16
	Max	AWG	6

Tightening torque (Max)				
			Nm	1.5
			lbin	14
Fixing				Din rail
Weight			g	90

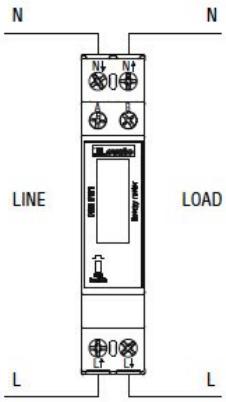
Ambient conditions

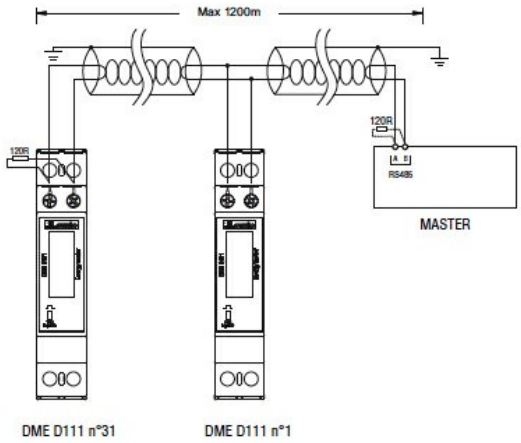
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			
		min	°C	-25
		max	°C	+70
Relative humidity			%	<80
Maximum Pollution degree				2
Mechanical environment				Class M1
Magnetic environment				Class E1

Dimensions



Wiring diagrams





Certifications and compliance

Compliance		
	IEC/EN 61000-6-2	
	IEC/EN 61000-6-3	
	IEC/EN 61010-1	
Certificates		
	CB	
	RCM	

ETIM classification

ETIM 8.0	EC001506 - Kilowatt-hour meter