



Modular LCD  
multimeters. non  
expandable  
DMG110  
Three-phase +  
neutral  
4

Product designation

Product type designation

Type

DIN rail module number

**Auxiliary supply Us**

Auxiliary rated supply voltage AC	VAC	100...240		
Auxiliary rated supply voltage DC	VDC	110...250		
Auxiliary operating voltage range	AC	min	VAC	90
		Max	VAC	264
	DC	min	VDC	93.5
		Max	VDC	300

Operational frequency

min	Hz	45
max	Hz	66

Power consumption

Max	VA	2.2
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Power dissipation Max

W	0.8
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**Measuring voltage inputs**

Rated voltage (Ue)	phase-phase	VAC	690
	phase-neutral	VAC	346

Operating voltage range

phase-phase	VAC	90...720
phase-neutral	VAC	50...415

Voltage inputs operational frequency

min	Hz	45
max	Hz	66

Voltage inputs measurement method

True RMS

Connection method

Single. two.  
three-phase with  
or without neutral.  
balanced three-  
phase systems

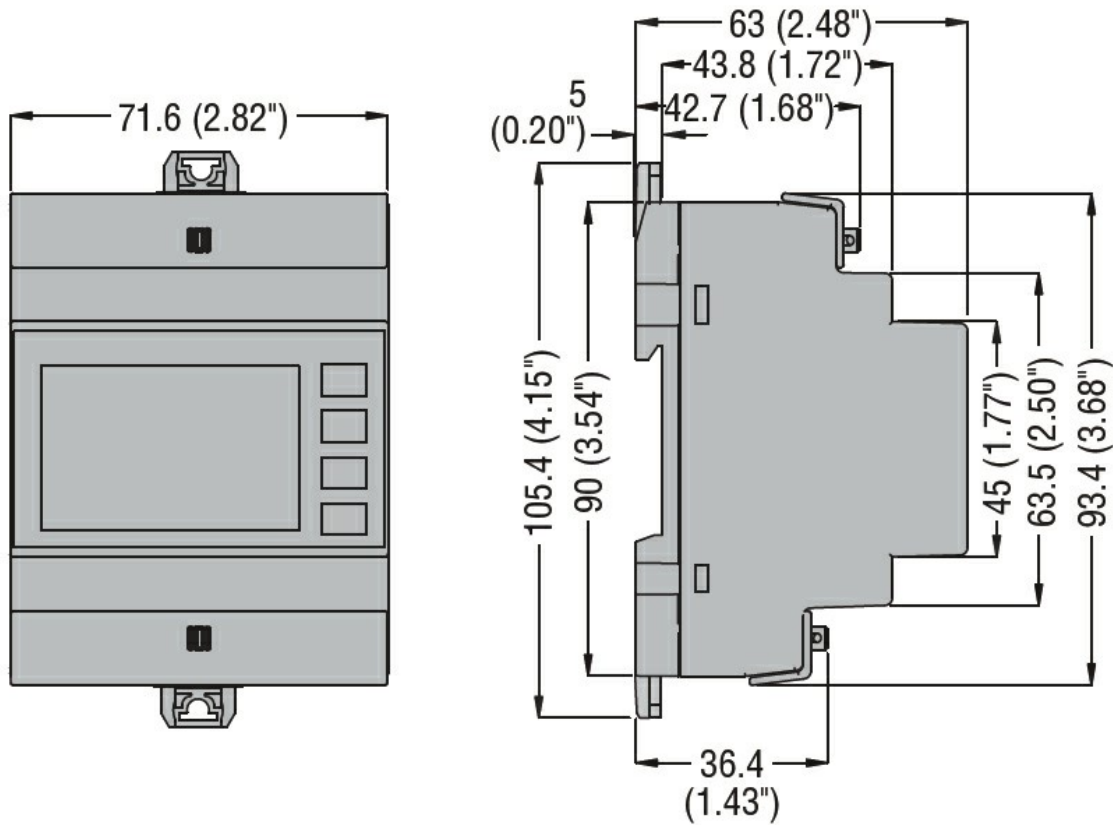
**Current inputs**

Rated current (Ie)	A	5
Measurement range		0.025...6A
Measurement method		TRMS

Overload capacity

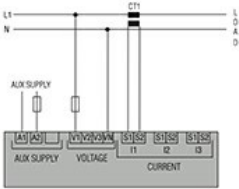
+20% Ie through  
external CT with  
5A secondary

Overload peak		A	50A for 1s
<b>Accuracy</b>			
	VLN voltage		±0.5%
	VLL voltage		±0.5%
	Current		±0.5%
	Frequency		±0.05%
	Active power		±1%
	Active energy		Class 1 (IEC/EN 62053-21)
	Reactive energy		Class 2 (IEC/EN 62053-23)
<b>RS485 serial interface</b>			
Baud rate		bps	Programmable 1200...38400
<b>Insulations</b>			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	9.5
Operating frequency withstand voltage		kV	5.2
<b>Functions</b>			
Harmonic analysis			15th order
PLC logic			No
Type of communication port			RS485
Ethernet-RS485 gateway function			No
<b>Mechanical features</b>			
Housing type			Polyamide
Terminals type			Fixed
Conductor cross section			
	min	mm <sup>2</sup>	0.2
	Max	mm <sup>2</sup>	4
	min	AWG	24
	Max	AWG	12
Tightening torque (Max)		Nm	0.8
		lbin	7
Fixing			Din rail
Weight		g	294
<b>Ambient conditions</b>			
Temperature			
	Operating temperature		
		min	°C -20
		max	°C +60
	Storage temperature		
		min	°C -30
		max	°C +80
Relative humidity		%	<90
Maximum Pollution degree			2
Protection degree			IP30
<b>Dimensions</b>			

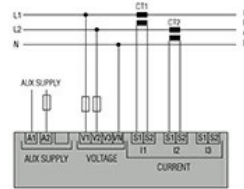


### Wiring diagrams

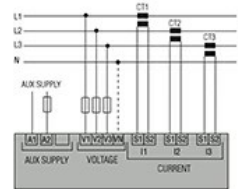
#### Single-phase



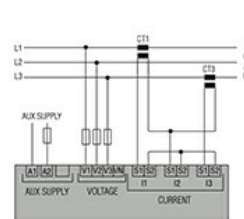
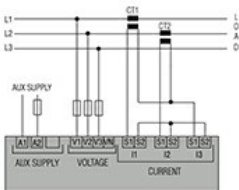
#### Two-phase



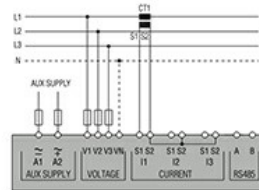
#### Three-phase with or without neutral



#### Three-phase without neutral in ARON connection



#### Balanced 3-phase connection with or without neutral



CODE	AUX SUPPLY
DMG100-110-200-210-300	100...240VAC 110...250VDC
DMG6...	100...440VAC 110...250VDC
DMG7000-7500-8000-9000	100...240VAC 110...250VDC

#### RS485 for DMG110 and DMG210



#### RS485 for DMG610



#### RS485 for DMG7500 and DMG9000



### Certifications and compliance

#### Compliance

CSA 22.2 n°61010-1

IEC/EN 61000-6-2

IEC/EN 61000-6-3

IEC/EN 61010-1

IEC/EN 61010-2-030

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UL61010-1

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Certificates

cULus

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EAC

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GOST

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RCM

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ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument