



Modular LCD  
multimeters. non  
expandable  
DMG100  
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
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Auxiliary rated supply voltage DC	VDC	110...250
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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	1.5
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Power dissipation Max	W	0.5
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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
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Connection method	Single. two. three-phase with or without neutral. balanced three- phase systems
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**Current inputs**

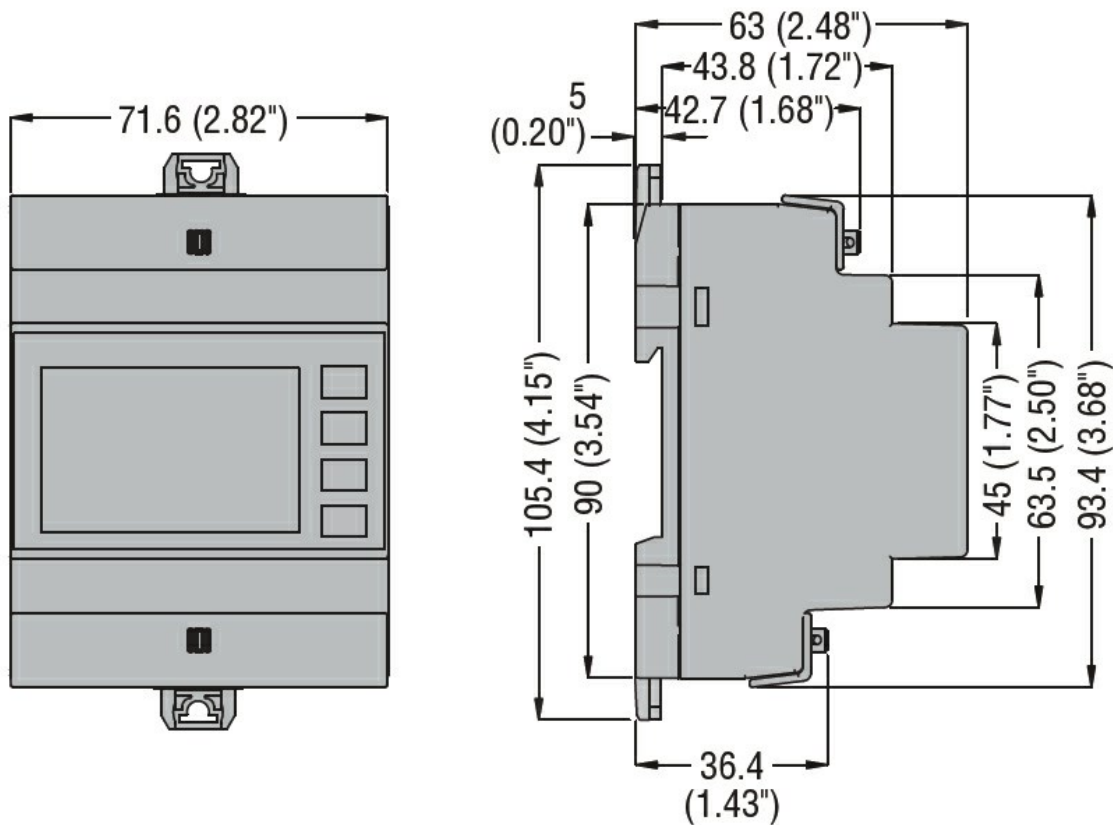
Rated current (Ie)	A	5
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Measurement range	0.025...6A
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Measurement method	TRMS
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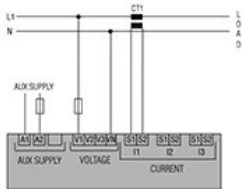
Overload capacity	+20% Ie through external CT with 5A secondary
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Overload peak	A	50A for 1s
<b>Accuracy</b>		
VLN voltage		±0.5%
VLL voltage		±0.5%
Current		±0.5%
Frequency		±0.05%
Active power		±1%
Active energy		Class 1 (IEC/EN 62053-21)
Reactive energy		Class 2 (IEC/EN 62053-23)
<b>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		No
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>		

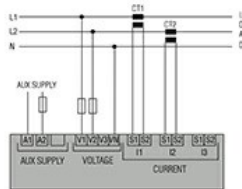


## Wiring diagrams

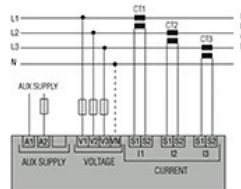
### Single-phase



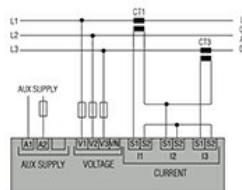
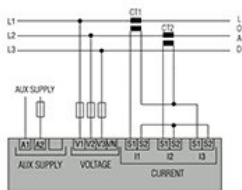
### Two-phase



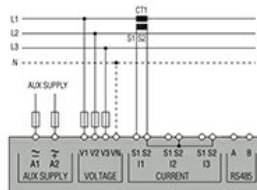
### Three-phase with or without neutral



### 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

UL61010-1

Certificates

cULus

EAC

GOST

RCM

ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument