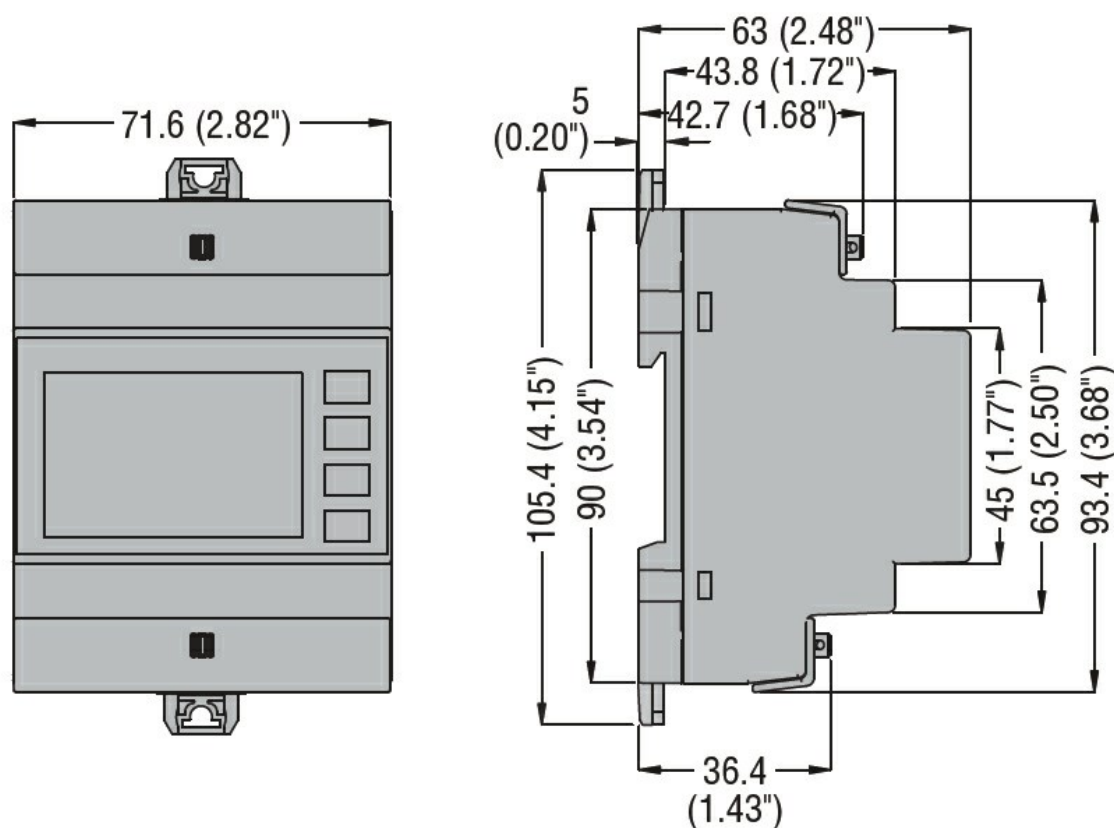




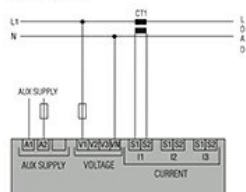
Product designation				Modular LCD multimeters. expandable
Product type designation				DMG300
Type				Three-phase + neutral
DIN rail module number				4
Auxiliary supply Us				
Auxiliary rated supply voltage AC			VAC	100...240
Auxiliary rated supply voltage DC			VDC	110...250
Auxiliary operating voltage range AC				
	min	VAC	85	
	Max	VAC	264	
DC				
	min	VDC	93.5	
	Max	VDC	300	
Operational frequency				
	min	Hz	45	
	max	Hz	66	
Power consumption				
	Max	VA	3.2	
Power dissipation Max			W	1.3
Measuring voltage inputs				
Rated voltage (Ue)				
	phase-phase		VAC	690
	phase-neutral		VAC	400
Operating voltage range				
	phase-phase		VAC	20...830
	phase-neutral		VAC	10...480
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	1 / 5
Measurement range				0.01...1.2 / 0.01...6
Measurement method				TRMS

Overload capacity				+20% Ie through external CT with 5A secondary
Overload peak		A		50A for 1s
<b>Accuracy</b>				
	VLN voltage			±0.2%
	VLL voltage			±0.2%
	Current			±0.2%
	Frequency			±0.05%
	Active power			±0.5%
	Active energy			Class 0.5s (IEC/EN 62053-22)
	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				31st order
PLC logic				No
Type of communication port				No
Ethernet-RS485 gateway function				Yes
<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		320
<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>				

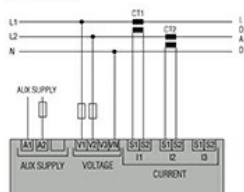


## Wiring diagrams

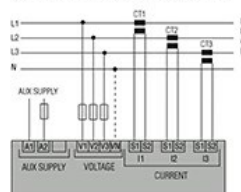
### Single-phase



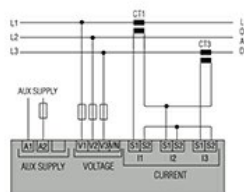
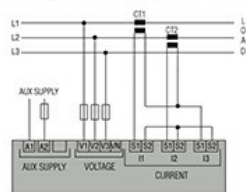
### Two-phase



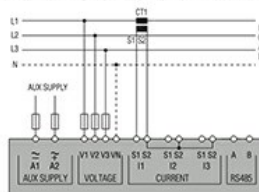
### Three-phase with or without neutral



### 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 C22.2 n°14  
IEC/EN 61000-6-2  
IEC/EN 61000-6-4  
IEC/EN 61010-1  
UL508

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Certificates

cULus

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EAC

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GOST

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RCM

ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument