



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
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	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

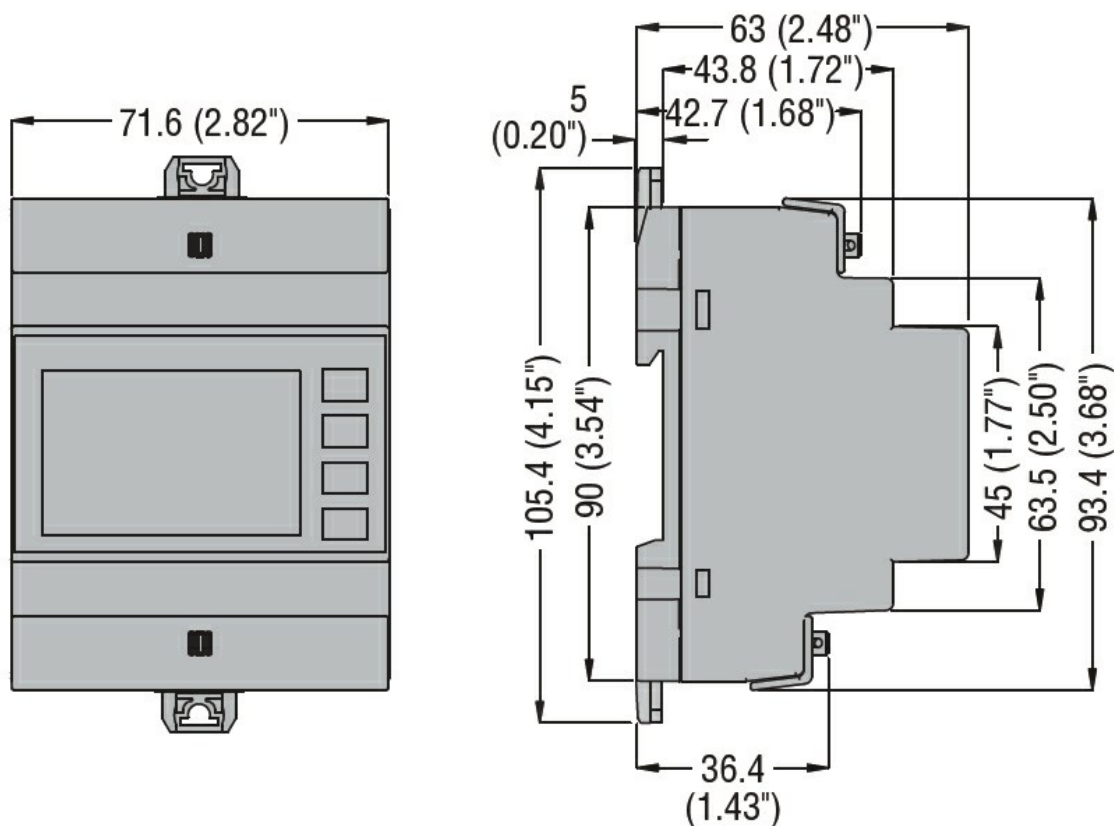
Connection method

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

Current inputs

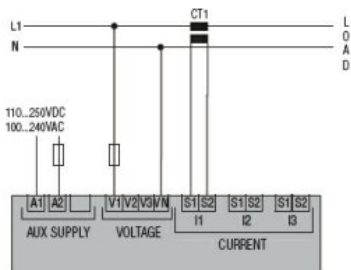
Rated current (Ie)	A	5
Measurement range		0.01...6
Measurement method		TRMS
Overload capacity		+20% Ie through external CT with 5A secondary

Overload peak	A	50A for 1s
Accuracy		
Measurement conditions (T +23°C ±1°C / Rel. Humidity 45 ±15% R.H.)		
VLN voltage		±0.5%
VLL voltage		±0.5%
current		±0.5%
frequency		±0.05%
active power		±1%
active energy		Class 1 (IEC/EN/BS 62053-21)
reactive energy		Class 2 (IEC/EN 62053-23)
Insulations		
Rated insulation voltage Ui IEC/EN	V	690
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2
Mechanical features		
Housing type		Polyamide
Terminals type		Fixed
Conductor cross section		
	min	mm ² 0.2
	Max	mm ² 4
	min	AWG 24
	Max	AWG 12
Tightening torque (Max)		
	Nm	0.8
	lbin	7
Fixing		Din rail
Weight	g	294
Ambient conditions		
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
Dimensions		

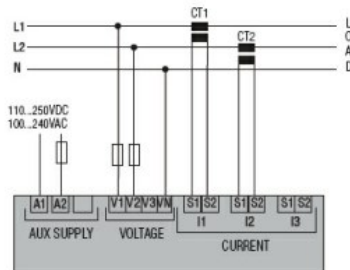


Wiring diagrams

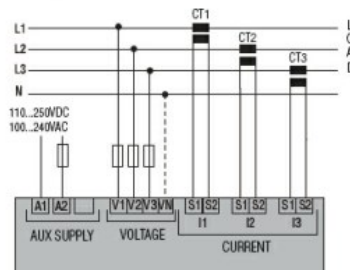
Single-phase



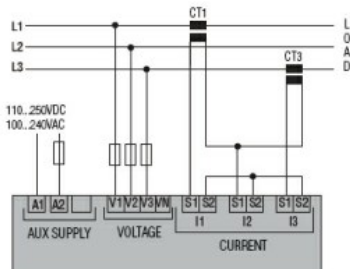
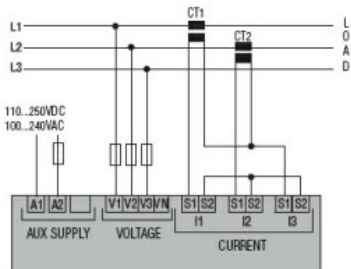
Two-phase



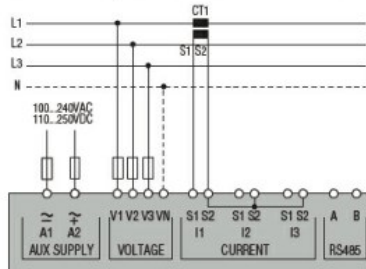
Three-phase with or without neutral



Three-phase without neutral in ARON connection



Balanced 3-phase connection with or without neutral



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