



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
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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 2.2
			W 0.8

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

Current inputs

Rated current (Ie)	A	5
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Measurement range		0.01...6
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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
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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)

RS485 serial interface

Baud rate	bps	Programmable 1200...38400
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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
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Weight	g	294
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Ambient conditions

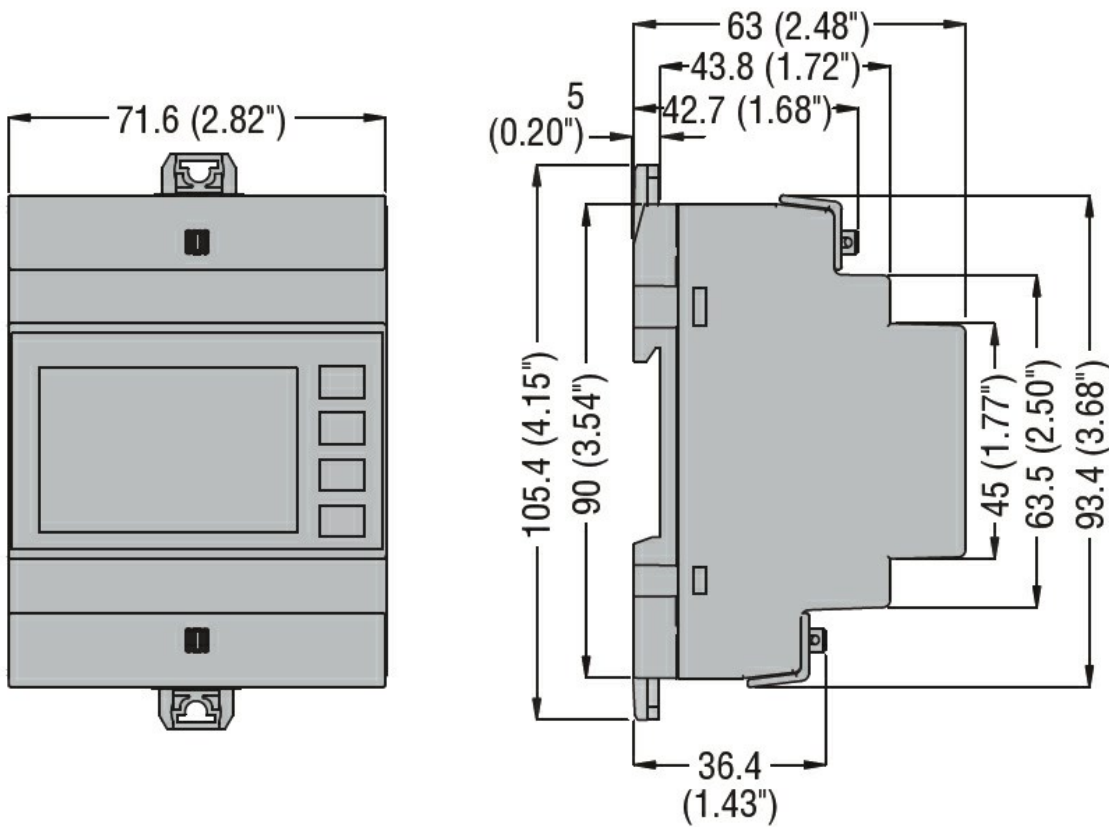
Temperature	Operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	min	°C	-30
		max	°C	+80

Relative humidity	%	<90
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Maximum Pollution degree	2
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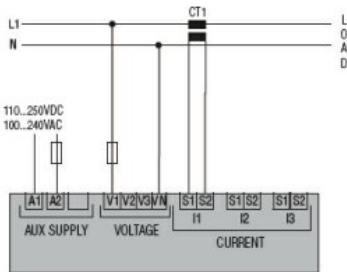
Protection degree	IP30
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Dimensions

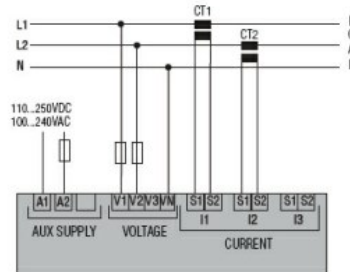


Wiring diagrams

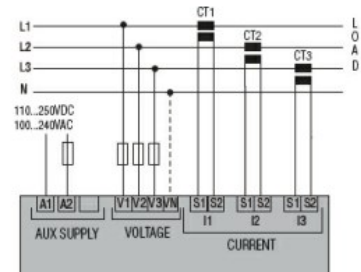
Single-phase



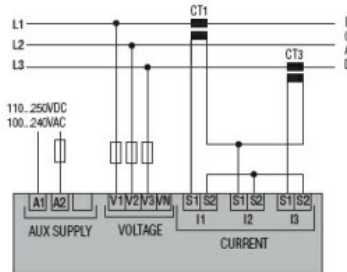
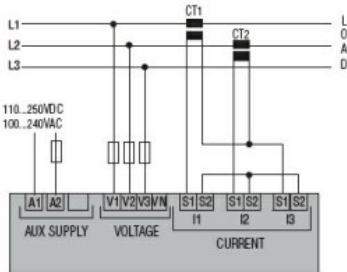
Two-phase



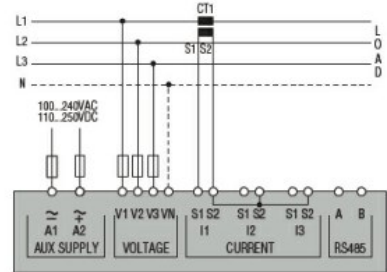
Three-phase with or without neutral



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