



Auxiliary supply U_s

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 (U_e)	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 (I_e)	A	1 / 5
Measurement range		0.01...1.2 / 0.01...6
Measurement method		TRMS
Overload capacity		+20% I_e through external CT with 5A secondary
Overload peak	A	50A for 1s

Accuracy

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)

Insulations

Rated insulation voltage Ui IEC/EN	V	690
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2

Functions

Harmonic analysis	31st order
PLC logic	No
Type of communication port	No
Ethernet-RS485 gateway function	Yes

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	320
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Ambient conditions

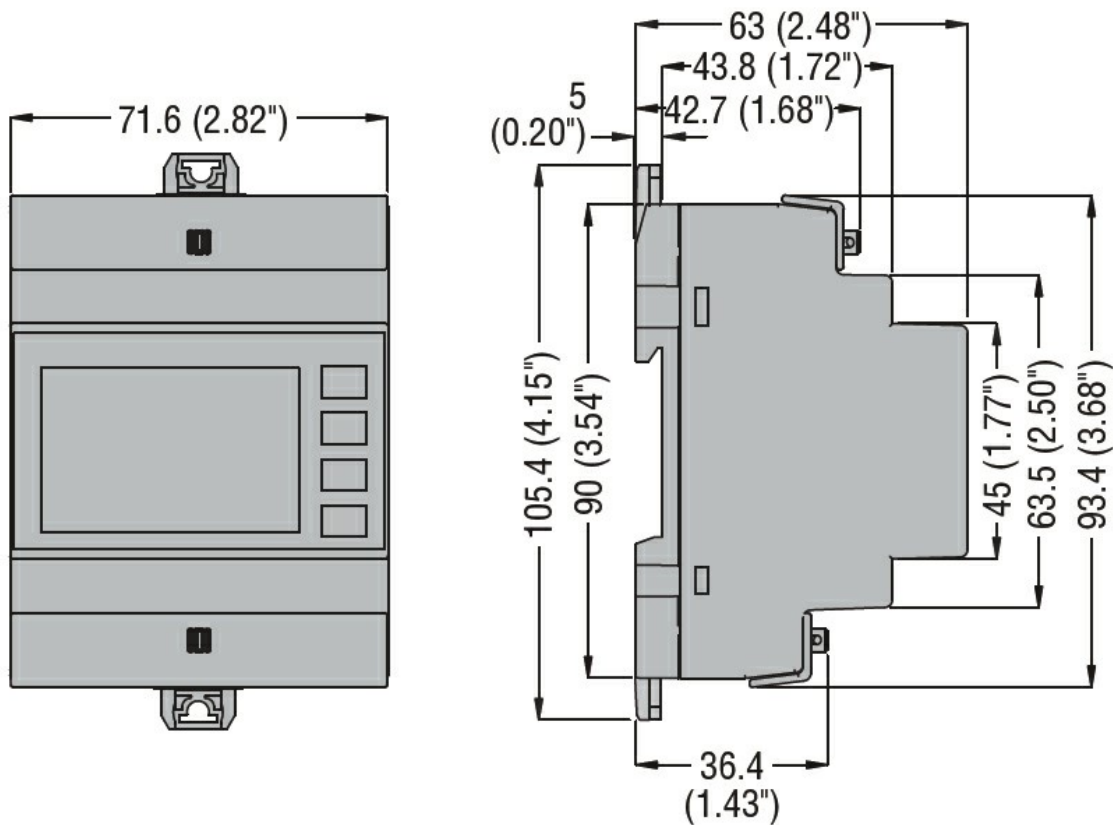
Temperature			
	Operating temperature		
		min	°C -20
		max	°C +60
	Storage temperature		
		min	°C -30
		max	°C +80

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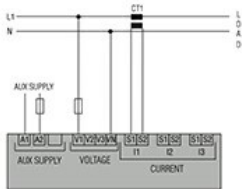
Protection degree	IP30
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Dimensions

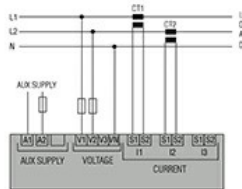


Wiring diagrams

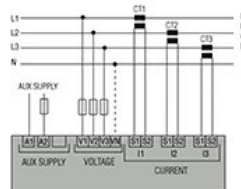
Single-phase



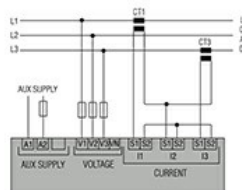
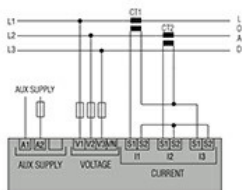
Two-phase



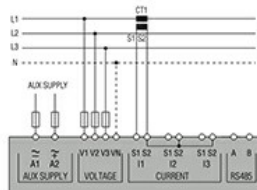
Three-phase with or without neutral



Three-phase without neutral in ARON connection



Balanced 3-phase connection with or without neutral



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

Certificates

cULus

EAC

GOST

RCM

ETIM classification

ETIM 8.0

EC002301 -
Multifunction
measuring
instrument