



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	3.5
Power dissipation Max		W	1.2
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		5
Measurement range			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		$\pm 0.5\%$
	VLL voltage		$\pm 0.5\%$
	Current		$\pm 0.5\%$
	Frequency		$\pm 0.05\%$
	Active power		$\pm 1\%$

Active energy	Class 1 (IEC/EN 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

Functions

Harmonic analysis	THD only
PLC logic	No
Type of communication port	No
Ethernet-RS485 gateway function	No

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

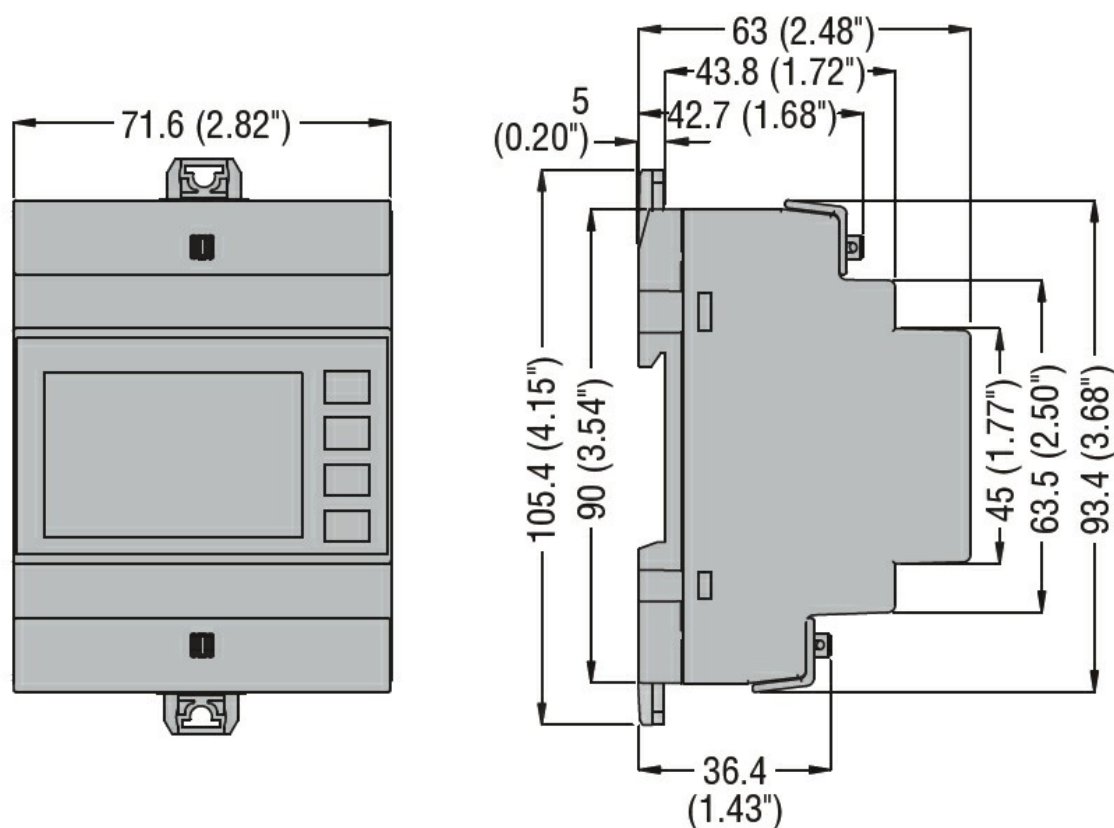
Tightening torque (Max)	Nm 0.8
	lbin 7

Fixing	Din rail
Weight	g 294

Ambient conditions

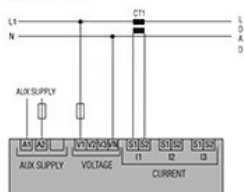
Temperature	
Operating temperature	
	min °C -20
	max °C +60
Storage temperature	
	min °C -30
	max °C +80
Relative humidity	% <90
Maximum Pollution degree	2
Protection degree	IP30

Dimensions

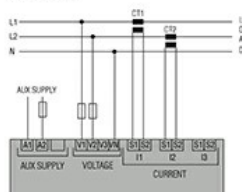


Wiring diagrams

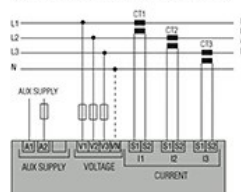
Single-phase



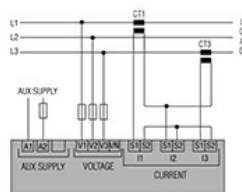
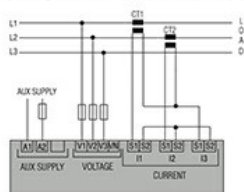
Two-phase



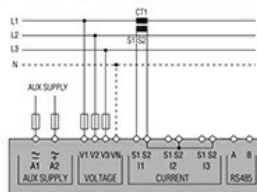
Three-phase with or without neutral



Three-phase without neutral in ARON connection



Balanced 3-phase connection with or without neutral



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