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DMG210

MODULAR LCD MULTIMETER, NON EXPANDABLE, GRAPHIC 128X80 PIXEL LCD, RS485 PORT, AUXILIARY SUPPLY 100-240VAC/110-250VDC. MULTILANGUAGE: ITALIAN, ENGLISH, FRENCH, SPANISH AND PORTUGUESE



Product designation			Modular LCD multimeters. non expandable
Product type designation			DMG210
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	4.5
Power dissipation Max		W	1.7
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	5
Measurement range			0.01…6
Measurement method			TRMS
Overload capacity			+20% Ie through external CT with 5A secondary

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Overload peak		A	50A for 1s
Accuracy			
	VLN voltage		±0.5%
	VLL voltage		±0.5%
	Current		±0.5%
	Frequency		±0.05%
	Active power		±1%
	Active energy		Class 1 (IEC/EN 62053-21)
	Reactive energy		Class 2 (IEC/EN 62053-23)
RS485 serial interface			
Baud rate		bps	Programmable 1200…38400
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			RS485
Ethernet-RS485 gateway function			No
Mechanical features			
Housing type			Polyamide
Terminals type			Fixed
Conductor cross section			
	min	mm²	0.2
	Max	mm²	4
	min	AWG	24
	Max	AWG	12
Tightening torque (Max)			
		Nm	0.8
		lbin	7
Fixing			Din rail
Weight		g	300
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			

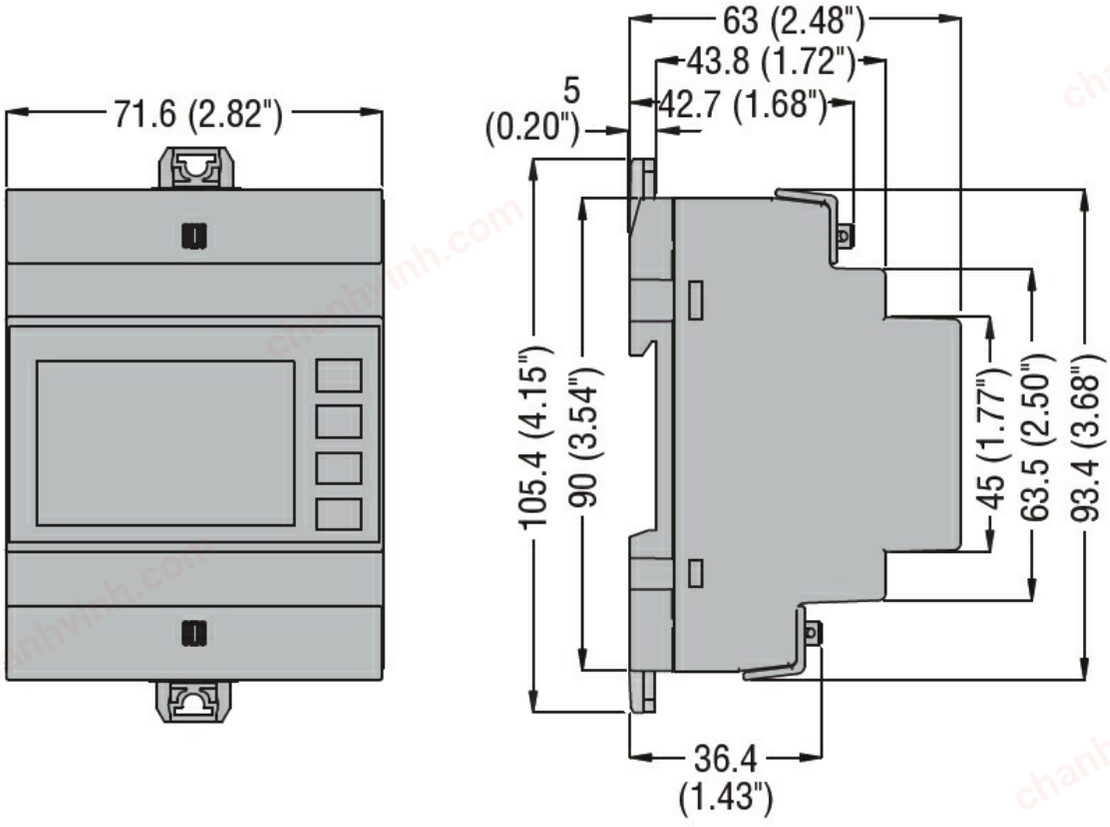
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Lovato electric
ENERGY AND AUTOMATION

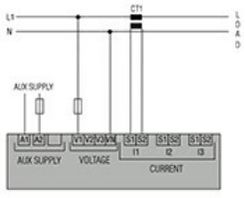
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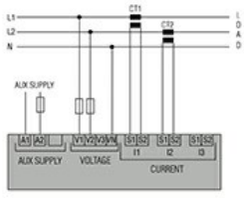


Wiring diagrams

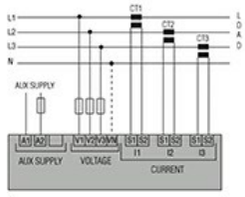
Single-phase



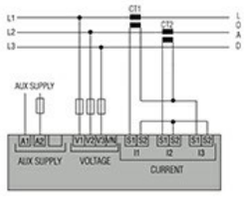
Two-phase

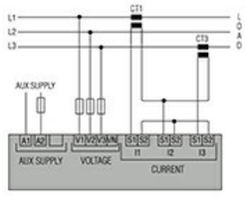


Three-phase with or without neutral

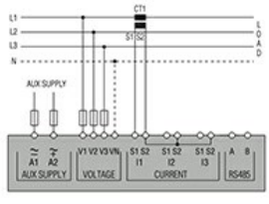


Three-phase without neutral in ARON connection





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
EAC
GOST
RCM

ETIM classification

ETIM 8.0	EC002301 - Multifunction measuring instrument

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