

EMM μ D3VA | μ 3VA | R3VA

DIGITAL MEASURING INSTRUMENTS - VOLTMETER / AMMETER

Voltage and current measures in True RMS

Storage of minimum, maximum and average(max demand) values

Connection by external CT

Measure in medium voltage by programming the voltage transformer (VT) ratio



TECHNICAL CHARACTERISTICS		EMM- μ D3VA	EMM- μ 3VA	EMM-R3VA
AUXILIARY SUPPLY				
Nominal voltage Us		230VAC	400VAC	400VAC
Operating voltage range		$\pm 15\%$	$\pm 15\%$	$\pm 15\%$
Power consumption		3VA	3VA	3VA
Frequency		50 – 60 Hz	45 – 65 Hz	45 – 65 Hz
VOLTAGE INPUTS				
Measurement range		20...500VAC L-L (20...380VAC L-N)	300...500VAC L-L (175...290VAC L-N)	300...500VAC L-L (175...290VAC L-N)
Method of measuring		True RMS value	True RMS value	True RMS value
Measuring input impedance		1M Ω	1M Ω	1M Ω
Method of connection		Single-phase, two-phase, three-phase or balanced three-phase system	Single-phase, two-phase, three-phase or balanced three-phase system	Single-phase, two-phase, three-phase or balanced three-phase system
CURRENT INPUTS				
Reference current		1A (option) or 5A	1A (option) or 5A	1A (option) or 5A
Measurement range		0,02...5A	0,02...5A	0,02...5A
Method of measuring		True RMS value	True RMS value	True RMS value
Overload capacity		+50% by an external current transformer	+30% by an external current transformer	+30% by an external current transformer
Self-consumption		< 0,5VA	< 0,5VA	< 0,5VA
ACCURACY				
Measures	Voltage	0,5%	0,5%	0,5%
	Current	0,5%	0,5%	0,5%
	Frequency	0,5%	0,5%	0,5%
INSULATION				
Insulation voltage		3kVAC for 1 minute	3kVAC for 1 minute	3kVAC for 1 minute
AMBIENT CONDITION				
Storage temperature		-10...+60°C	-10...+60°C	-10...+60°C
Storage temperature		-25...+70°C	-25...+70°C	-25...+70°C
HOUSING				
Version		3 modules (DIN 50022)	Flush mount 72 x 72 mm	Flush mount 96 x 96 mm
Degree of protection		IP42 on front IP20 Housing and terminals	IP52 on front IP20 Housing and terminals	IP52 on front IP20 Housing and terminals
Weight		400g	500g	500g
CERTIFICATIONS AND COMPLIANCE				
Reference standards		IEC/EN 50081-2, IEC/EN 61000-6-2, IEC/EN 61010-1		

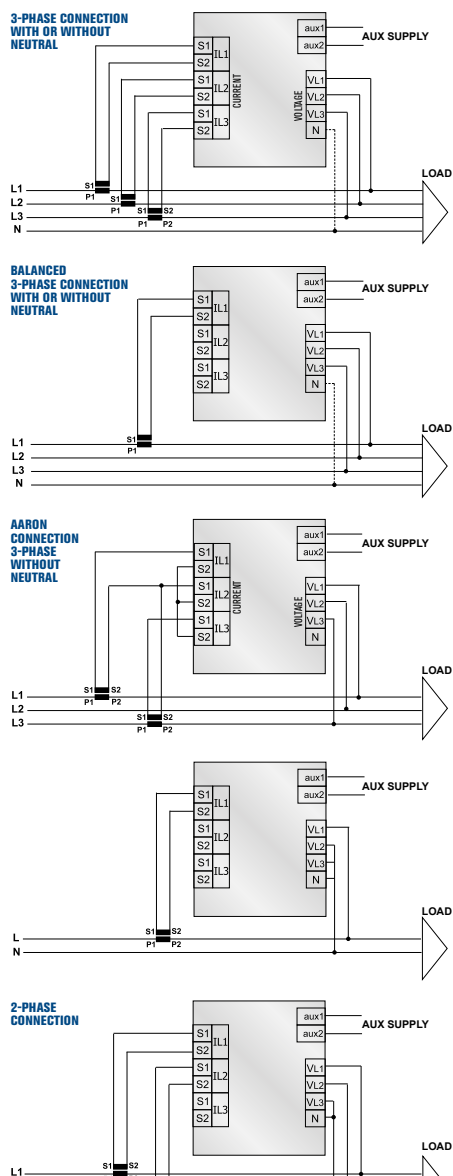
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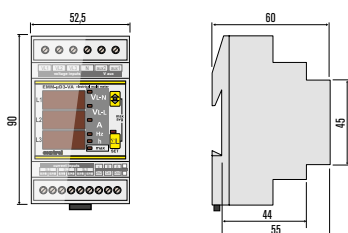
OPTIONS

ORDER CODE	DESCRIPTION
C1	Auxiliary Supply 230 V
C2	Auxiliary Supply 115 V
1A	Rated current inputs by external CT 1A
T	Internal current inputs, galvanically insulated
P	2 digital outputs

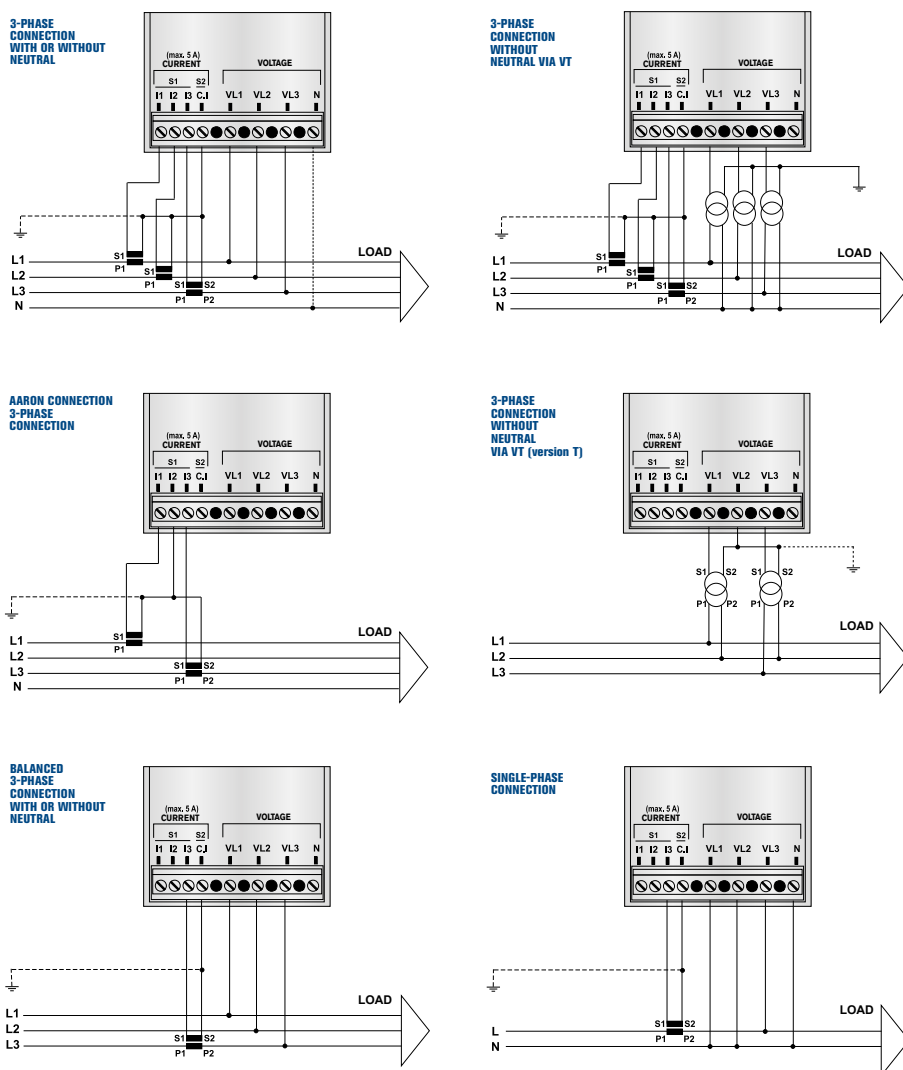
WIRING DIAGRAMS EMM- μ D3VA



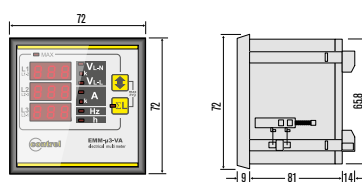
MECHANICAL DIMENSIONS EMM- μ D3VA



WIRING DIAGRAMS EMM- μ 3VA e EMM-R3VA



MECHANICAL DIMENSIONS EMM- μ 3VA



MECHANICAL DIMENSIONS EMM-R3VA

