PMV50NA240



VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS, NEUTRAL LOSS AND INCORRECT PHASE SEQUENCE, 208...240VAC 50/60HZ



Product designation			Voltage monitoring relays
Product type designation			PMV50N
General characteristics			
Description			Minimum and maximum AC voltage, phase loss, neutral loss and incorrect phase sequence relay
Type of system			Three-phase with/without neutral
Power supply			
Auxiliary supply voltage Us			Self powered
Operating voltage range			0.71.2 Ue
Rated frequency		Hz	50/60 ±5%
Power consumption Max		VA	27
Power dissipation Max		W	1.9
Control circut			
Rated voltage to control (Ue)			
	min	VAC	208
	Max	VAC	240
Voltage set-point (%Ue)			
	min	%	8095
	Max	%	105115
Tripping delay		S	0.120
Resetting time		S	0.120
Resetting hysteresis		%	3
Instantaneous tripping for Ue			Voltage <70% Ue
Type of reset			Automatic
Repeat accuracy		%	<±0.1
Tripping time for phase loss		ms	60
Relay outputs			
Number of relays		Nr.	2
Relay state			Normally energised De- energises at tripping
Contact arrangement		_	2 changeover SPDT
Rated operational voltage AC (IEC)		VAC	250
Maximum switching voltage		VAC	400
IEC Conventional free air thermal current Ith		А	8
UL/CSA and IEC/EN 60947-5-1 designation			B300

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ENERGY AND AUTOMATION

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Electrical life (with rated load) Mechanical life Functions Modular version Minimum AC voltage Maximum AC voltage Natural loss Phase loss Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency	cycles cycles	30000000 3U Yes Yes Yes Yes Yes Yes
Modular version Minimum AC voltage Maximum AC voltage Natural loss Phase loss Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency		3U Yes Yes Yes Yes Yes Yes
Minimum AC voltage Maximum AC voltage Natural loss Phase loss Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency		Yes Yes Yes Yes Yes
Maximum AC voltage Natural loss Phase loss Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency		Yes Yes Yes Yes
Maximum AC voltage Natural loss Phase loss Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency		Yes Yes Yes
Natural loss Phase loss Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency		Yes Yes Yes
Phase loss Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency		Yes Yes
Incorrect phase sequence Asymmetry Minimum frequency Maximum frequency		Yes
Asymmetry Minimum frequency Maximum frequency		
Minimum frequency Maximum frequency		No
Maximum frequency		No
		No
Programmable via NFC technology and APP		No
Indications		NO
Indications		1 green LED for
		power on and
Indication		tripping and 2 red
		LEDs for tripping
Connections		
Terminals type		Screw
Tightening torque for terminals		
ma	ix Nm	0.8
ma		7
Conductor cross section		
AWG/Kcmil		
	in 11/0	24
m		24
Ma	ax AWG	12
IEC		
m		0.2
Ma	ax mm²	4
Insulations	N/	000
Rated insulation voltage Ui	V	600
Rated impulse withstand voltage Uimp	kV	6
Operating frequency withstand voltage	kV	4
Ambient conditions		
Temperature		
Operating temperature		
m		-20
ma	ix °C	+60
Storage temperature		
m		-30
ma	ix °C	+80
Housing		
Execution (n° of modules)		3
Material		Self-extinguishing
Malena		polyamide
Mounting		35mm DIN rail (IEC/EN 60715)
IEC degree of protection		IP40 on front; IP20 at terminals
Dimensions (W x H x D)	mm	53.5 x 104.7 x 64.9
Weight	g	200
Dimensions	Э	

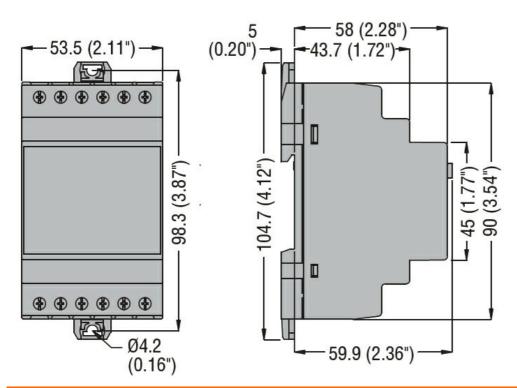
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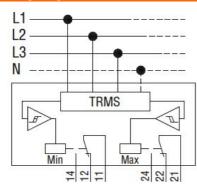
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Wiring diagrams



Certifications and compliance

Compliance		
	IEC/EN 60255-5	
	IEC/EN 61000-6-2	
	IEC/EN 61000-6-3	
Certificates		
	EAC	

ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay

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