

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS, NEUTRAL LOSS AND INCORRECT PHASE SEQUENCE, 480...600VAC 50/60HZ **ENERGY AND AUTOMATION**



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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	480
	Max	VAC	600
Voltage set-point (%Ue)			
Voltage set-point (%Ue)	min	%	8095
			8095 105115
Tripping delay	min	% % s	8095 105115 0.120
Tripping delay Resetting time	min	% % s s	8095 105115 0.120 0.120
Tripping delay Resetting time Resetting hysteresis	min	% % s	8095 105115 0.120 0.120
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue	min	% % s s	8095 105115 0.120 0.120 3 Voltage <70% Ue
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset	min	% % s s %	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy	min	% % s s %	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss	min	% % s s %	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss Relay outputs	min	% % s s % % ms	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss	min	% % s s %	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1 60
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss Relay outputs	min	% % s s % % ms	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1 60 2 Normally energised De- energises at tripping
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays	min	% % s s % % ms	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1 60 2 Normally energised De- energises at
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays Relay state	min	% % s s % % ms	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1 60 2 Normally energised De- energises at tripping 2 changeover
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays Relay state Contact arrangement Rated operational voltage AC (IEC) Maximum switching voltage	min	% s s % ms	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1 60 2 Normally energised De- energises at tripping 2 changeover SPDT
Tripping delay Resetting time Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays Relay state Contact arrangement Rated operational voltage AC (IEC)	min	% % s s % ms Nr.	8095 105115 0.120 0.120 3 Voltage <70% Ue Automatic <±0.1 60 2 Normally energised De- energises at tripping 2 changeover SPDT 250

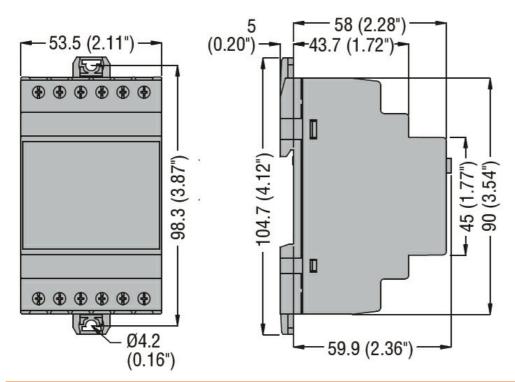


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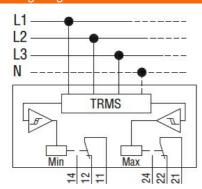
Electrical life (with rated	d load)		cycles	100000
Mechanical life			cycles	30000000
Functions				
Modular version				3U
Minimum AC voltage				Yes
Maximum AC voltage				Yes
Natural loss				Yes
Phase loss				Yes
Incorrect phase seque	nce			Yes
Asymmetry				No
Minimum frequency				No
Maximum frequency				No
Programmable via NFC	C tochnology and APP			No
Indications		INU		
muications				1 groon LED for
				1 green LED for power on and
Indication				tripping and 2 red
				LEDs for tripping
Connections				
Terminals type				Screw
Tightening torque for te	erminals			
rigintorning torquo for to	Thinking .	max	Nm	0.8
		max	lbin	7
Conductor cross section	nn	παλ	10111	
Conductor cross section	AWG/Kcmil			
	AVO/ROTH	min	AWG	24
		Max	AWG	12
	IEC	IVIAX	AWG	12
	IEC	min	mm²	0.2
		min Max	mm²	4
Insulations		IVIAX	111111	4
			V	600
Rated insulation voltage			kV	6
Rated impulse withstan	•			
Operating frequency withstand voltage			kV	4
Ambient conditions				
Temperature				
	Operating temperature		0.0	00
		min	°C	-20
		max	°C	+60
	Storage temperature			
		min	°C	-30
and the second second		max	°C	+80
Housing	<u>, </u>			
Execution (n° of modul	es)			3
Material				Self-extinguishing polyamide
Mounting				35mm DIN rail (IEC/EN 60715)
IEC degree of protection	on			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			3	

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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