**ENERGY AND AUTOMATION** 

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

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Product designation			Voltage monitoring relays
Product type designation			PMV50
General characteristics			
Description			Minimum and maximum AC voltage, phase loss and incorrect phase sequence relay
Type of system			Three-phase 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	19
		W	2.5
Power dissipation Max		VV	2.5
Control circut			
Rated voltage to control (Ue)	_		
11.00	min	VAC	600
Voltage set-point (%Ue)			
	min	%	8095
	Max	%	105115
Tripping delay		S	0.120
Resetting time		S	0.120 (0.5 at power up)
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.	1
Relay state			Normally energised De- energises at tripping
Contact arrangement			1 changeover SPDT
Rated operational voltage AC (IEC)		VAC	250
Maximum switching voltage		VAC	400
IEC Conventional free air thermal current Ith			
UL/CSA and IEC/EN 60947-5-1 designation		Α	8
		Α	8 B300
			B300
Electrical life (with rated load)  Mechanical life		cycles	



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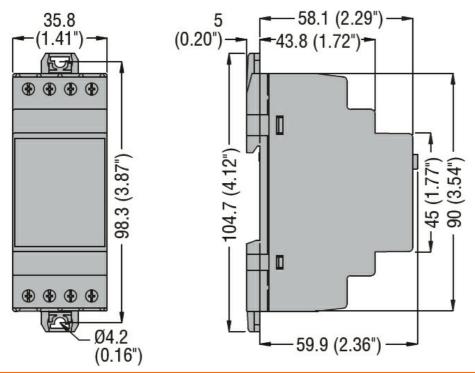
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Functions			
Modular version			2U
Minimum AC voltage			Yes
Maximum AC voltage			Yes
Phase loss			Yes
Incorrect phase sequence			Yes
Asymmetry			No
Indications			
Indication  Connections			1 green LED for power on and tripping and 2 red LEDs for tripping
Terminals type			Screw
Tightening torque for terminals			Sciew
rightering torque for terminals	max	Nm	0.8
	max	lbin	7
Conductor cross section			
AWG/Kcmil			
	min	AWG	24
	Max	AWG	12
IEC			
	min	mm²	0.2
	Max	mm²	4
Insulations		1.7	000
Rated insulation voltage Ui		V	600
Rated impulse withstand voltage Uimp Operating frequency withstand voltage		kV kV	6
Ambient conditions		KV	4
Temperature			
Operating temperature			
operating temperature	min	°C	-20
	max	°C	+60
Storage temperature			
	min	°C	-30
	max	°C	+80
Housing			
Execution (n° of modules)			2
Material			Self-extinguishing 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	35.8 x 104.7 x 64.9
Weight		g	130
Dimensions			

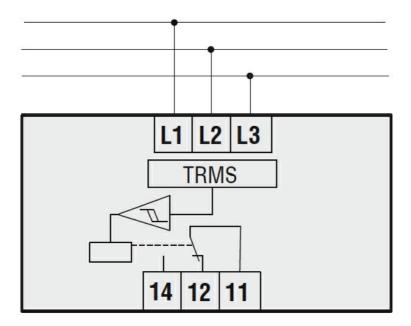


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## Wiring diagrams



Certifications and co	ompliance
Compliance	
	CSA C22.2 n° 14
	IEC/EN 60255-5
	IEC/EN 61000-6-2
	IEC/EN 61000-6-3
	UL 508
Certificates	
	cULus
	EAC

## PMV50A600



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ETIM classification

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ETIM 8.0

EC001438 -Voltage monitoring relay