

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

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Product designation			Voltage monitoring relays
Product type designation			PMV70
General characteristics			
Description			Minimum and maximum AC voltage, phase loss, incorrect phase sequence and asymmetry relay  Three-phase
Type of system			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	11
Power dissipation Max		W	2.5
Control circut			
Rated voltage to control (Ue)			
	min	VAC	208
	Max	VAC	240
Voltage set-point (%Ue)			
	min	%	8095
A	Max	%	105115
Asymmetry set-point (%Ue)		%	515
Tripping delay		S	0.120
Resetting time Resetting hysteresis		s 	0.5 3
Instantaneous tripping for Ue		70	Voltage <70% Ue
Type of reset			Automatic
Repeat accuracy		%	<±0.1
Tripping time for phase loss		ms	60
Relay outputs		1113	
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		Α	8
UL/CSA and IEC/EN 60947-5-1 designation			B300



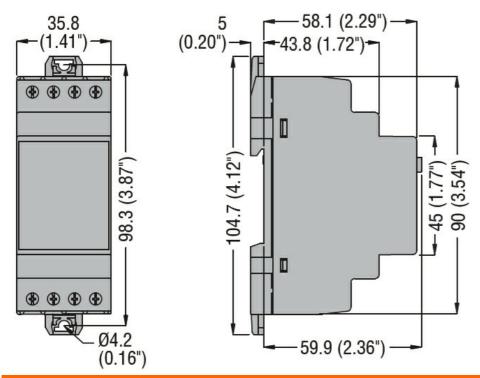
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Electrical life (with rated load)		cycles	100000
Mechanical life		cycles	30000000
Functions		0,0.00	
Modular version			2U
Minimum AC voltage			Yes
Maximum AC voltage			Yes
Phase loss			Yes
Incorrect phase sequence			Yes
Asymmetry			No
Indications			110
			1 green LED for
In direction			power on and
Indication			tripping and 3 red
			LEDs for tripping
Connections			
Terminals type			Screw
Tightening 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			
Rated insulation voltage Ui		V	600
Rated impulse withstand voltage Uimp		kV	6
Operating frequency withstand voltage		kV	4
Ambient conditions			
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		3	

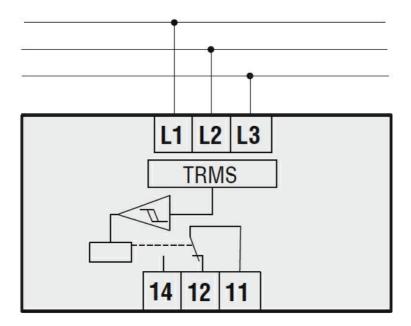


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## Wiring diagrams



Certifications and	compliance	
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	

## PMV70A240



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ETIM classification

**ENERGY AND AUTOMATION** 

ETIM 8.0

EC001438 -Voltage monitoring relay