

**ENERGY AND AUTOMATION** 

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE AND ASYMMETRY. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

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Product designation			Voltage monitoring relays
Product type designation			PMV70
General characteristics			Minimum and
Description			Minimum and maximum AC voltage, phase loss, incorrect phase sequence and asymmetry 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	30
Power dissipation Max		W	2.5
Control circut			
Rated voltage to control (Ue)			
	min	VAC	380
	Max	VAC	575
Voltage set-point (%Ue)			
	min	%	8095
	Max	%	105115
Asymmetry set-point (%Ue)		%	515
Tripping delay		S	0.120
Resetting time		S	0.5
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		N.I.	4
Number of relays		Nr.	Name alle
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

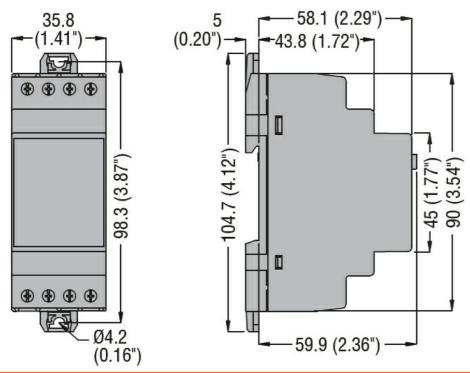


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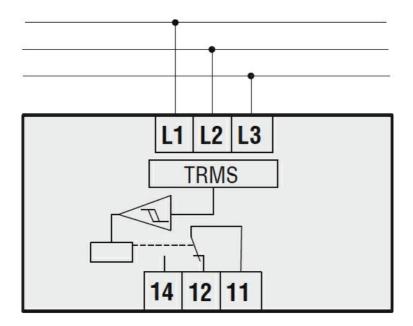
Electrical life (with rate	d load)		cycles	100000
Mechanical life	2.000		cycles	30000000
Functions			0,0100	
Modular version				2U
Minimum AC voltage				Yes
Maximum AC voltage				Yes
Phase loss				Yes
Incorrect phase seque	nce			Yes
Asymmetry				No
Indications				
				1 green LED for
la di action				power on and
Indication				tripping and 3 red
				LEDs for tripping
Connections				
Terminals type				Screw
Tightening torque for te	erminals			
		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			V	600
Rated impulse withstan			kV	6
Operating frequency wi	ithstand 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 modul	es)			2
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	35.8 x 104.7 x 64.9
Weight			g	130
Dimensions [mm (in)]				



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## Wiring diagrams



Certifications and o	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

## PMV70A575



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ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay