

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

**ENERGY AND AUTOMATION** 



Product designation			Voltage monitoring relays
Product type designation			PMV80N
General characteristics			
Description			Minimum and maximum AC voltage, minimum and maximum frequency, phase loss, neutral loss and incorrect phase sequence relay  Three-phase
Type of system			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
Frequency set-point (% rated frequency)			
	min	%	1
	Max	%	10
Tripping delay		s	0.120s (0.1
			5s freq.)
Resetting time		S	0.5
Resetting hysteresis		%	3 (0.5 freq)
Instantaneous tripping for Ue			Voltage <70% Ue
Type of reset		0/	Automatic
Repeat accuracy		%	<±0.1
Tripping time for phase loss		ms	60
Relay outputs		N.I.	0
Number of relays		Nr.	Normally
Relay state			Normally energised De- energises at tripping



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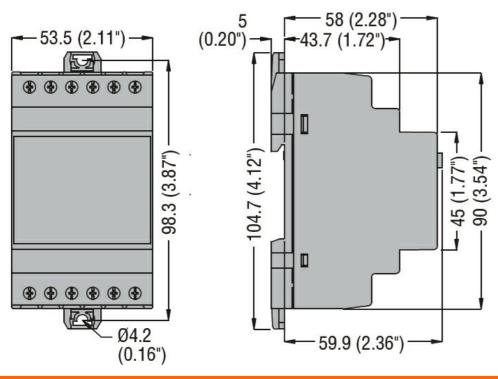
Contact arrangement			
Contact arrangement			2 changeover SPDT
Dated apprational valtage AC	\(\( \( \( \( \) \) \)	VAC	250
Rated operational voltage AC	, (IEC)	VAC	400
Maximum switching voltage  IEC Conventional free air there	rmal aurrant lth	A	8
		A	B300
UL/CSA and IEC/EN 60947-5 Electrical life (with rated load)		ovoloo	100000
Mechanical life		cycles cycles	3000000
Functions		cycles	3000000
Modular version			3U
Minimum AC voltage			Yes
Maximum AC voltage			Yes
Natural loss			Yes
Phase loss			Yes
Incorrect phase sequence			Yes
Asymmetry			No
Minimum frequency			Yes
Maximum frequency			Yes
Programmable via NFC techr	onlogy and APP		No
Indications	lology and AFF		NO
mulcations			1 green LED for
			power on and
Indication			tripping and 3 red
			LEDs for tripping
Connections			7,7
Terminals type			Screw
Tightening torque for terminal	s		
	max	Nm	0.8
	max	lbin	7
Conductor cross section			
AWG	G/Kcmil		
	min	AWG	24
	Max	AWG	12
IEC			
	min	mm²	0.2
	min Max	mm² mm²	
Insulations		mm²	0.2
Rated insulation voltage Ui	Max	mm²	0.2 4 600
Rated insulation voltage Ui Rated impulse withstand volta	Max age Uimp	V kV	0.2 4 600 6
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan	Max age Uimp	mm²	0.2 4 600
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions	Max age Uimp	V kV	0.2 4 600 6
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan	Max age Uimp	V kV	0.2 4 600 6
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature	Max age Uimp	V kV kV	0.2 4 600 6 4
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature	Max age Uimp d voltage	mm² V kV kV	0.2 4 600 6 4
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature Oper	age Uimp d voltage  ating temperature  min max	V kV kV	0.2 4 600 6 4
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature Oper	age Uimp d voltage rating temperature min max age temperature	V kV kV °C °C	0.2 4 600 6 4 -20 +60
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature Oper	age Uimp d voltage  rating temperature  min max age temperature  min min	V kV kV °C °C	0.2 4 600 6 4 -20 +60
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Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature Oper Stora	age Uimp d voltage  rating temperature  min max age temperature  min min	V kV kV °C °C	0.2 4 600 6 4 -20 +60 -30 +80
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature Oper	age Uimp d voltage  rating temperature  min max age temperature  min min	V kV kV °C °C	0.2 4 600 6 4 -20 +60 -30 +80
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature Oper Stora	age Uimp d voltage  rating temperature  min max age temperature  min min	V kV kV °C °C	0.2 4 600 6 4 -20 +60 -30 +80
Rated insulation voltage Ui Rated impulse withstand volta Operating frequency withstan Ambient conditions Temperature Oper Stora  Housing Execution (n° of modules)	age Uimp d voltage  rating temperature  min max age temperature  min min	V kV kV °C °C	0.2 4 600 6 4 -20 +60 -30 +80 3 Self-extinguishing

## **PMV80NA240**

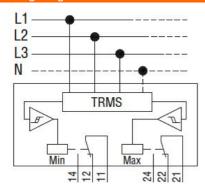


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IEC degree of protection		IP40 on front;
TEO degree of proteotion		IP20 at terminals
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
Weight	~	200
Dimensions	g	200



## 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