## **PMV80NA440**

OVALO 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, 380...575VAC 50/60HZ ENERGY AND AUTOMATION



Product designation			Voltage
Product type designation			monitoring relays PMV80N
General characteristics			FININOUN
Description			Minimum and maximum AC voltage, minimum and maximum frequency, 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	380
	Max	VAC	440
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			Automatic
Repeat accuracy		%	<±0.1
Tripping time for phase loss		ms	60
Relay outputs			
Number of relays		Nr.	2
Relay state			Normally energised De- energises at tripping

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ENERGY AND AUTOMATION

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			2 changeover
Contact arrangement			2 changeover SPDT
Rated operational voltage AC (IEC)		VAC	250
Maximum switching voltage		VAC	400
IEC Conventional free air thermal current Ith		А	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)		cycles	100000
Mechanical life		cycles	3000000
Functions			
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 technology and APP			No
Indications			
indications			1 green LED for
			power on and
Indication			tripping and 3 red
			LEDs for tripping
Connections			11 3
Terminals type			Screw
Tightening torque for terminals			
	max	Nm	0.8
	max	Ibin	7
Conductor cross section		-	
AWG/Kcmil			
	min	AWG	24
	Max	AWG	12
IEC	THOSE	/	
	min	mm²	0.2
	Max	mm²	4
Insulations	IVICIA	111111	7
Rated insulation voltage Ui		V	600
Rated impulse withstand voltage Uimp		kV	6
Operating frequency withstand voltage		kV	4
Ambient conditions		ΓV	4
Temperature			
Operating temperature	and in	° <b>^</b>	20
	min	℃ ℃	-20
	max	C	+60
Storage temperature		•	20
	min	°C °C	-30
	max	°C	+80
Housing			3
Execution (n° of modules)			
Material			Self-extinguishing polyamide
Mounting			35mm DIN rail
			(IEC/EN 60715)

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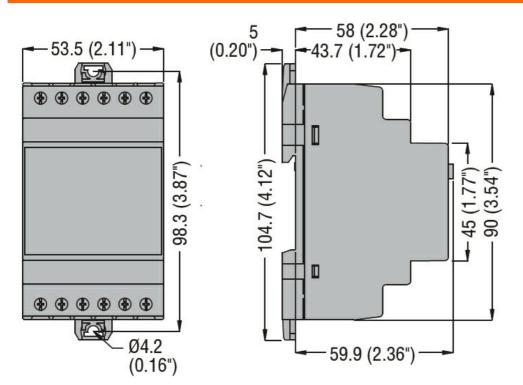
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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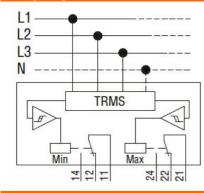
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IEC degree of protection		IP40 on front; IP20 at terminals
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
Weight	g	200

Dimensions



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