PMV50NA440

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS, NEUTRAL LOSS AND INCORRECT PHASE SEQUENCE, 380…440VAC 50/60HZ

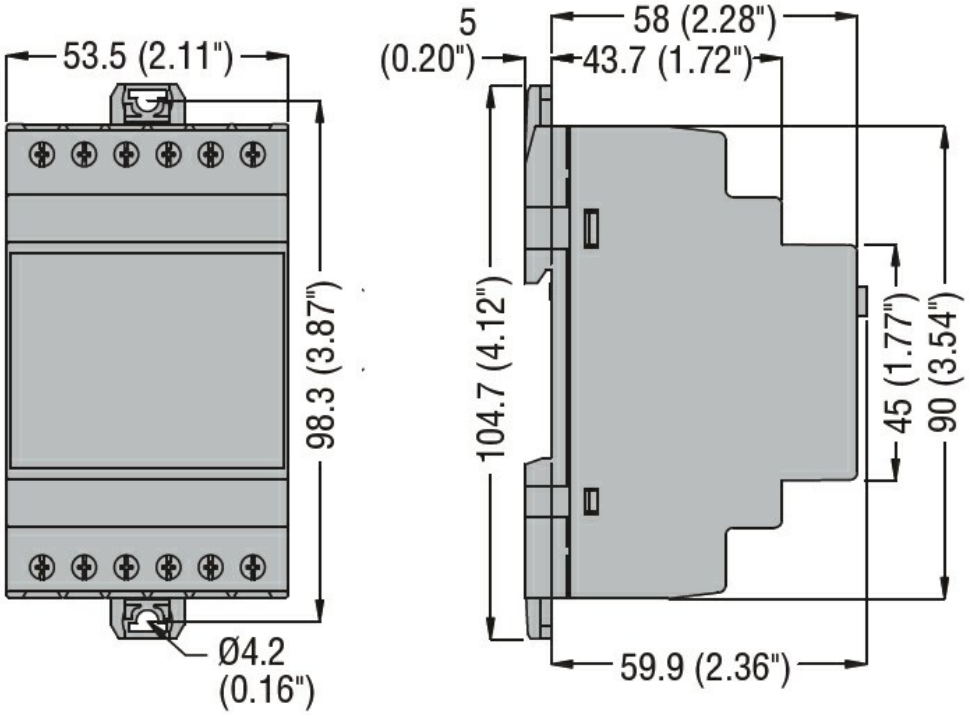


Product designation			Voltage monitoring relays
Product type designation			PMV50N
General characteristics			
Description			Minimum and maximum AC voltage, phase loss, neutral loss and incorrect phase sequence relay
Type of system			Three-phase with/without neutral
Power supply			
Auxiliary supply voltage Us			Self powered
Operating voltage range			0.7...1.2 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	%	80…95
	Max	%	105…115
Tripping delay		s	0.1…20
Resetting time		s	0.1…20
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.	2
Relay state			Normally energised De-energises at tripping
Contact arrangement			2 changeover SPDT
Rated operational voltage AC (IEC)		VAC	250
Maximum switching voltage		VAC	400
IEC Conventional free air thermal current Ith		A	8
UL/CSA and IEC/EN 60947-5-1 designation			B300

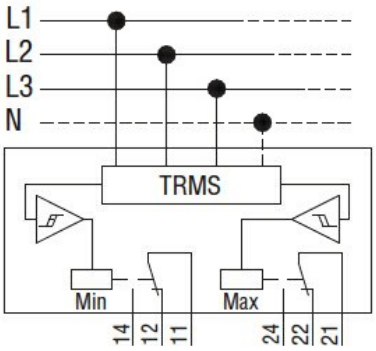
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

Electrical life (with rated load)		cycles	100000
Mechanical life		cycles	30000000
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			No
Maximum frequency			No
Programmable via NFC technology and APP			No
Indications			
Indication			1 green LED for power on and tripping and 2 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)			3
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	53.5 x 104.7 x 64.9
Weight		g	200
Dimensions			

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



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

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