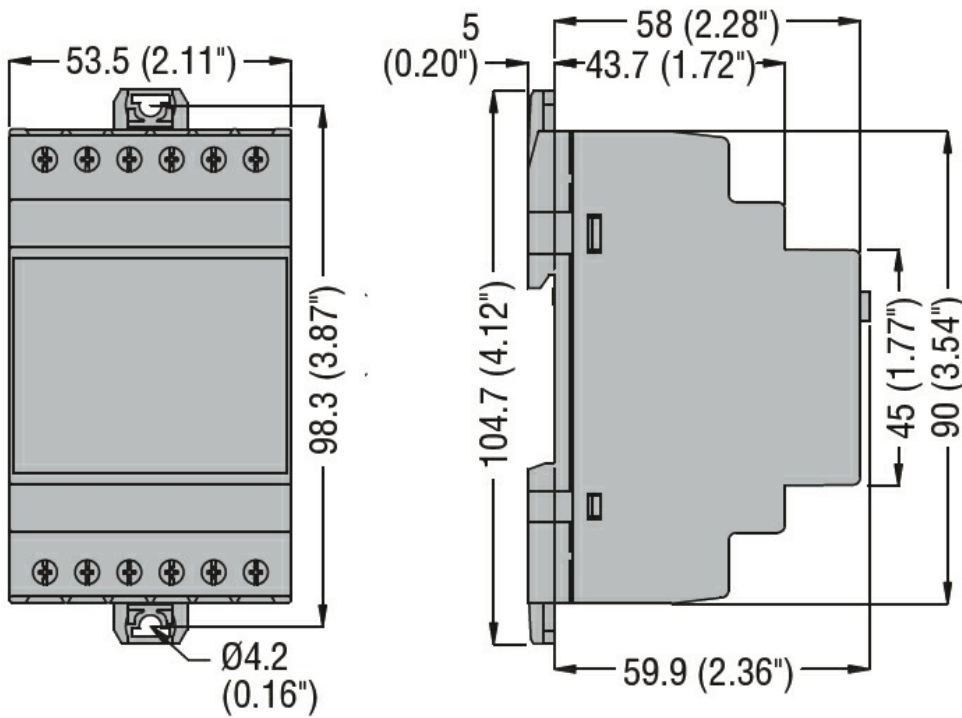


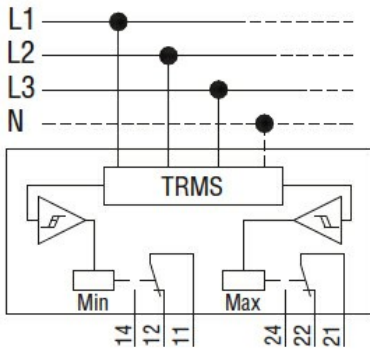


Product designation				Voltage monitoring relays
Product type designation				PMV50N
<b>General characteristics</b>				
Description				Minimum and maximum AC voltage, phase loss, neutral loss and incorrect phase sequence relay
Type of system				Three-phase with/without neutral
<b>Power supply</b>				
Auxiliary supply voltage $U_s$				Self powered
Operating voltage range				0.7...1.2 $U_e$
Rated frequency	Hz			50/60 $\pm 5\%$
Power consumption Max	VA			27
Power dissipation Max	W			1.9
<b>Control circuit</b>				
Rated voltage to control ( $U_e$ )	min	VAC	480	
	Max	VAC	600	
Voltage set-point ( $\%U_e$ )	min	%	80...95	
	Max	%	105...115	
Tripping delay			s	0.1...20
Resetting time			s	0.1...20
Resetting hysteresis			%	3
Instantaneous tripping for $U_e$				Voltage $< 70\% U_e$
Type of reset				Automatic
Repeat accuracy			%	$\leq \pm 0.1$
Tripping time for phase loss			ms	60
<b>Relay outputs</b>				
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 I <sub>th</sub>	A			8
UL/CSA and IEC/EN 60947-5-1 designation				B300

Electrical life (with rated load)				cycles	100000
Mechanical life				cycles	30000000
<b>Functions</b>					
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
<b>Indications</b>					
Indication					1 green LED for power on and tripping and 2 red LEDs for tripping
<b>Connections</b>					
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	mm <sup>2</sup>	0.2
			Max	mm <sup>2</sup>	4
<b>Insulations</b>					
Rated insulation voltage Ui				V	600
Rated impulse withstand voltage Uimp				kV	6
Operating frequency withstand voltage				kV	4
<b>Ambient conditions</b>					
Temperature					
	Operating temperature				
			min	°C	-20
			max	°C	+60
	Storage temperature				
			min	°C	-30
			max	°C	+80
<b>Housing</b>					
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
<b>Dimensions</b>					



**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