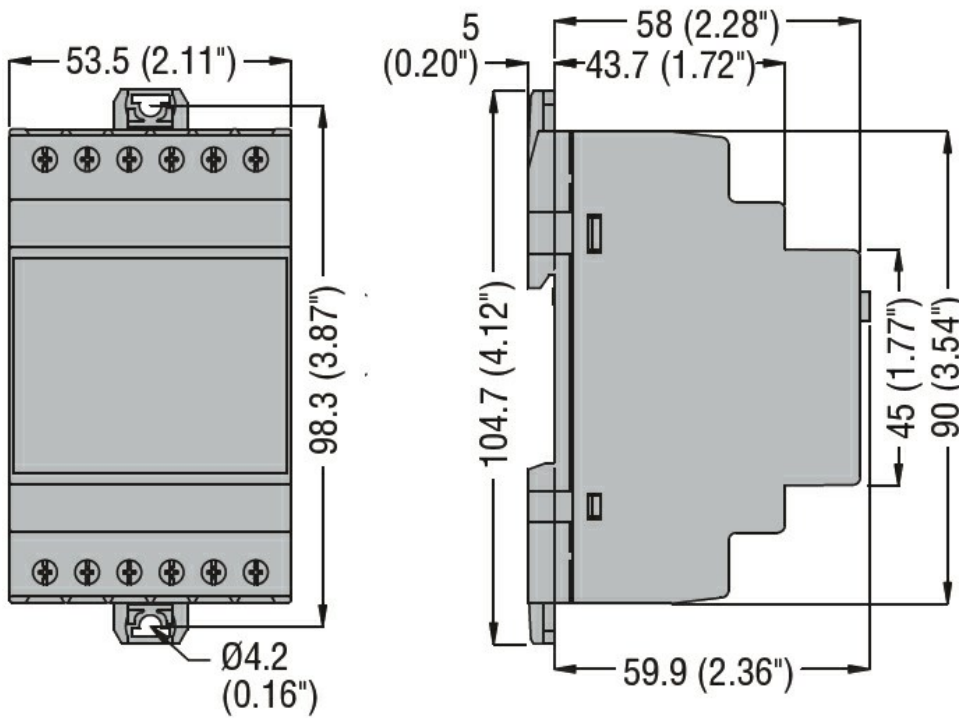


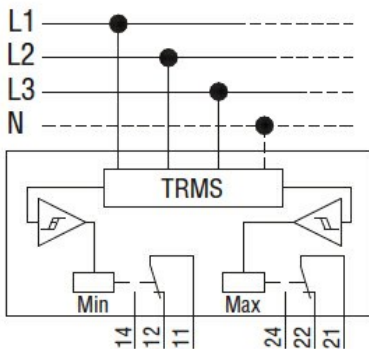


Product designation	Voltage monitoring relays		
Product type designation	PMV50N		
<b>General characteristics</b>			
Description	Minimum and maximum AC voltage, phase loss, neutral loss and incorrect phase sequence relay		
Type of system	Three phase with/without neutral		
<b>Power supply</b>			
Auxiliary 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	208
	Max	VAC	240
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>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
<b>Conductor cross section</b>					
	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