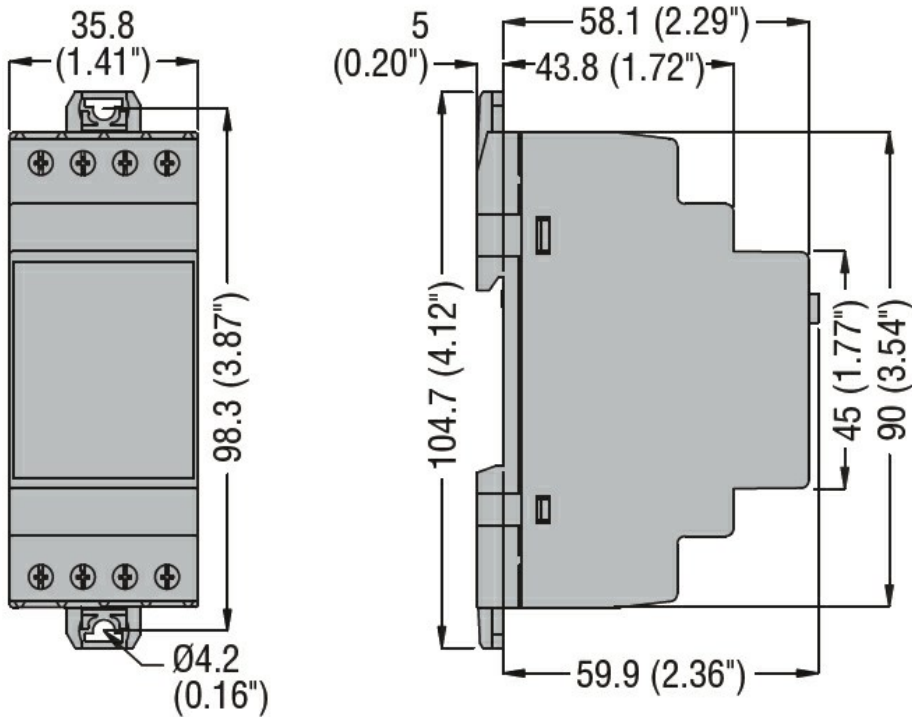


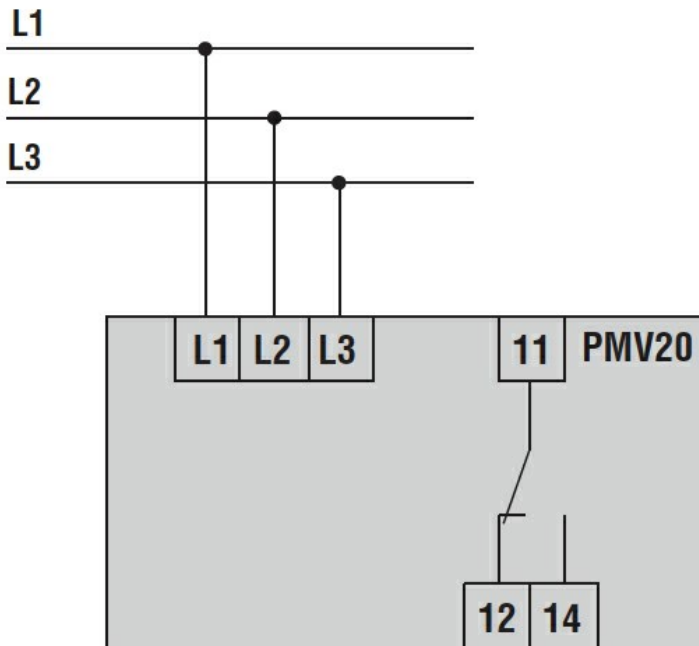


Product designation	Voltage monitoring relays		
Product type designation	PMV20		
<b>General characteristics</b>			
Description	Phase loss and incorrect phase sequence relay		
Type of system	Three-phase without neutral		
<b>Power supply</b>			
Auxiliary supply voltage $U_s$	Self powered		
Operating voltage range	0.85...1.1 $U_e$		
Rated frequency	Hz	50/60 $\pm 5\%$	
Power consumption Max	VA	28	
Power dissipation Max	W	2.5	
<b>Control circuit</b>			
Rated voltage to control ( $U_e$ )	min	VAC	208
	Max	VAC	575
Tripping delay		s	0.06
Resetting time		s	0.5
Resetting hysteresis		%	5
Instantaneous tripping for $U_e$	Voltage $< 70\% U_e$		
Type of reset	Automatic		
Repeat accuracy		%	$< \pm 1$
Tripping time for phase loss		ms	60
<b>Relay outputs</b>			
Number of relays	Nr.	1	
Relay state	Normally energised De-energises at tripping		
Contact arrangement	1 changeover SPDT		
Rated operational voltage AC (IEC)	VAC	250	
Maximum switching voltage	VAC	400	
IEC Conventional free air thermal current $I_{th}$	A	8	
UL/CSA and IEC/EN 60947-5-1 designation	B300		
Electrical life (with rated load)	cycles	100000	
Mechanical life	cycles	3000000	
<b>Functions</b>			
Modular version	2U		
Minimum AC voltage	No		
Maximum AC voltage	No		
Phase loss	Yes		
Incorrect phase sequence	Yes		

Asymmetry				No
<b>Indications</b>				
Indication				1 green LED for power on and 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)				2
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	35.8 x 104.7 x 64.9
Weight			g	120
<b>Dimensions [mm (in)]</b>				



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

CSA C22.2 n° 14

IEC/EN 60255-5

IEC/EN 61000-6-2

IEC/EN 61000-6-3

UL 508

**Certificates**

cULus

EAC

ETIM classification

ETIM 8.0

EC001438 -  
Voltage  
monitoring relay