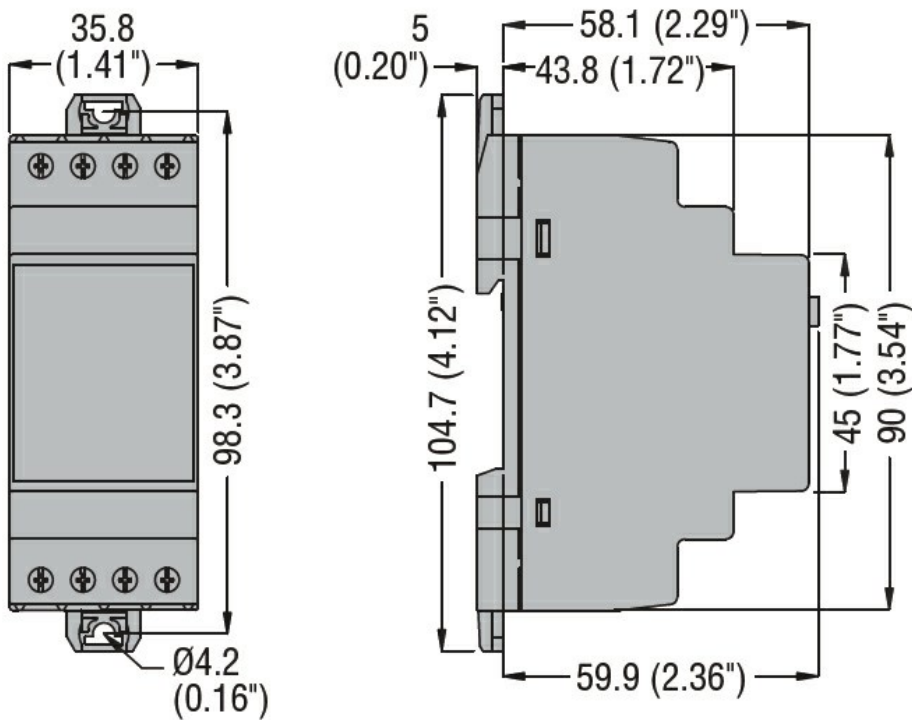


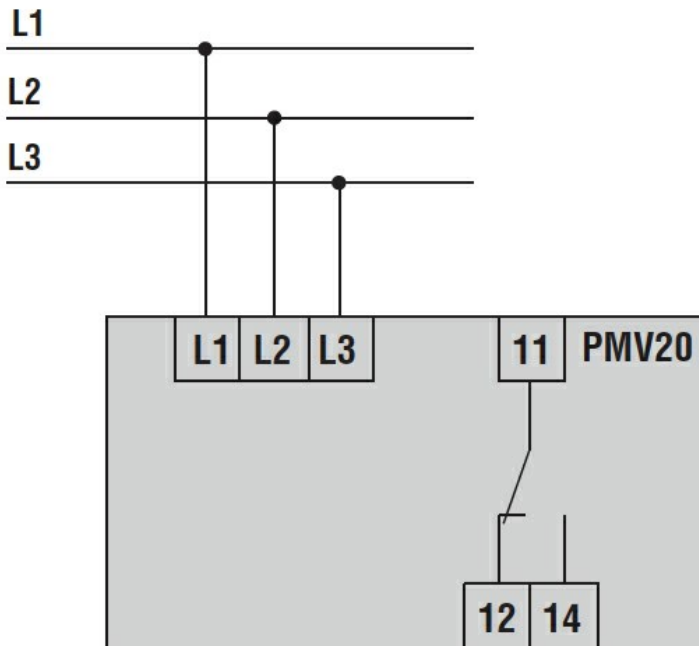


Product designation	Voltage monitoring relays		
Product type designation	PMV20		
General characteristics			
Description	Phase loss and incorrect phase sequence relay		
Type of system	Three-phase without neutral		
Power supply			
Auxiliary supply voltage U_s	Self powered		
Operating voltage range	0.85...1.1 U_e		
Rated frequency	Hz	50/60 $\pm 5\%$	
Power consumption Max	VA	28	
Power dissipation Max	W	2.5	
Control circuit			
Rated voltage to control (U_e)	min	VAC	100
	Max	VAC	240
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
Relay outputs			
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	
Functions			
Modular version	2U		
Minimum AC voltage	No		
Maximum AC voltage	No		
Phase loss	Yes		
Incorrect phase sequence	Yes		

Asymmetry				No
Indications				
Indication				1 green LED for power on and tripping
Connections				
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			
		min	mm ²	0.2
		Max	mm ²	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)				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
Dimensions [mm (in)]				



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