



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	
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

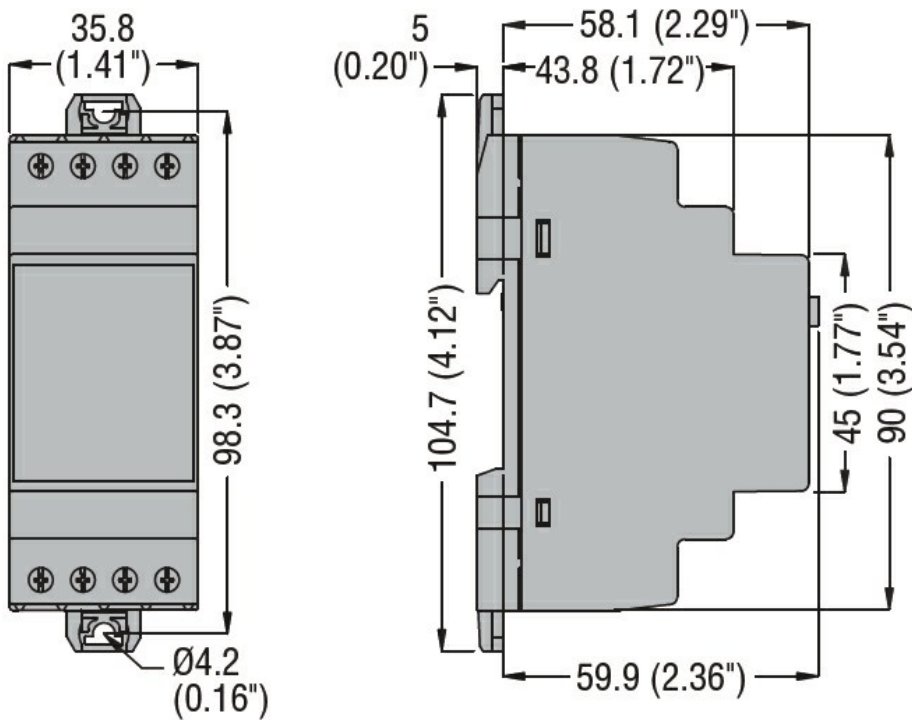
Storage temperature

min	°C	-30
max	°C	+80

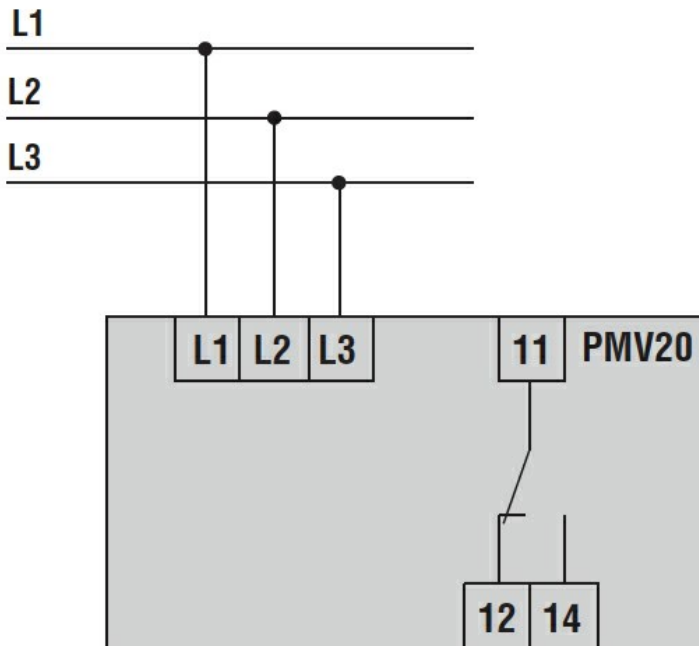
Housing

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



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