



Product designation	Voltage monitoring relays		
Product type designation	PMV40		
General characteristics			
Description	Asymmetry, 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	0.7...1.2 U_e		
Rated frequency	Hz	50/60 $\pm 5\%$	
Power consumption Max	VA	19	
Power dissipation Max	W	2.5	
Control circuit			
Rated voltage to control (U_e)	min	VAC	600
Asymmetry set-point ($\%U_e$)		%	5...15
Tripping delay		s	0.1...20
Resetting time		s	0.1...20 (0.5 at power up)
Resetting hysteresis		%	3
Instantaneous tripping for U_e			Voltage $< 70\% U_e$
Type of reset			Automatic
Repeat accuracy		%	± 0.1
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	30000000
Functions			
Modular version			2U
Minimum AC voltage			No
Maximum AC voltage			No

Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	Yes

Indications

Indication	1 green LED for power on and tripping and 1 red LED for tripping
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Connections

Terminals type	Screw
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Tightening torque for terminals	max	Nm	0.8
	max	lbin	7

Conductor cross section	AWG/Kcmil	min	AWG	24
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Max	AWG	12
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IEC	min	mm ²	0.2
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Max	mm ²	4
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Insulations

Rated insulation voltage Ui	V	600
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Rated impulse withstand voltage Uimp	kV	6
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Operating frequency withstand voltage	kV	4
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Ambient conditions

Temperature	Operating temperature	min	°C	-20
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max	°C	+60
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Storage temperature	min	°C	-30
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max	°C	+80
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Housing

Execution (n° of modules)	2
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Material	Self-extinguishing polyamide
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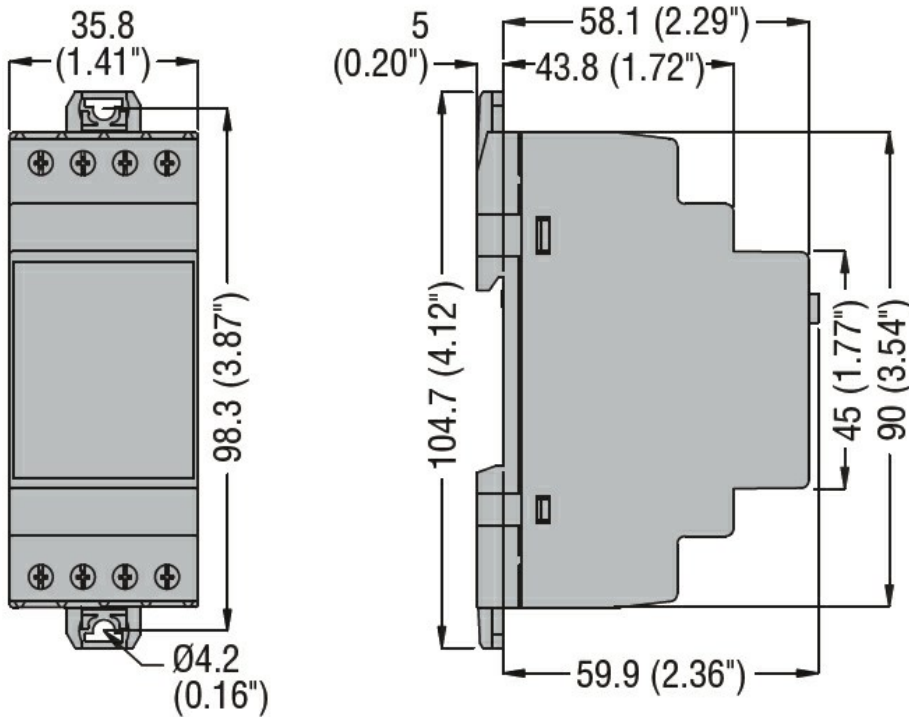
Mounting	35mm DIN rail (IEC/EN 60715)
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IEC degree of protection	IP40 on front; IP20 at terminals
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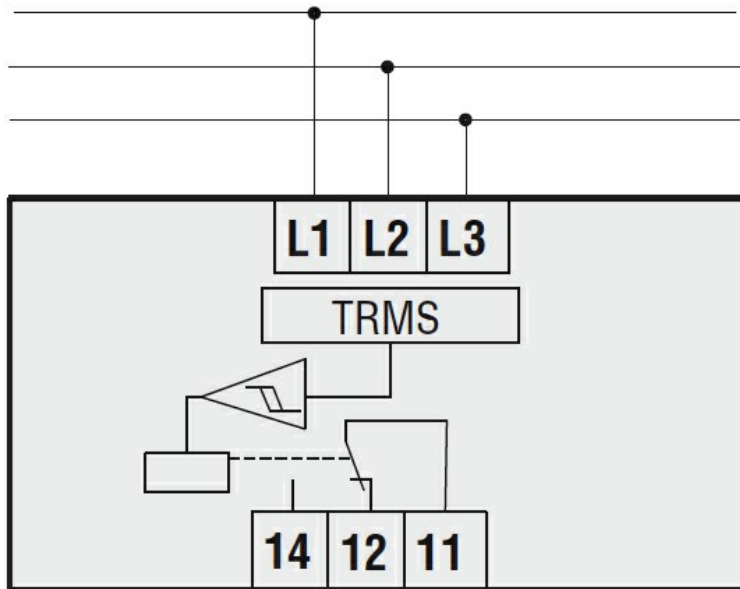
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
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Weight	g	130
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Dimensions



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