



Product designation

Voltage  
monitoring relays  
PMV30

Product type designation

**General characteristics**

Description

Minimum AC  
voltage, 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 30

Power dissipation Max

W 2.5

**Control circuit**

Rated voltage to control ( $U_e$ )

min	VAC	380
Max	VAC	575

Voltage set-point ( $\%U_e$ )

min	%	80...95
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Tripping delay

s	0.1...20
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Resetting time

s	0.1...20 (0.5 at power up)
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Resetting hysteresis

%	3
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Instantaneous tripping for  $U_e$

Voltage  $< 70\% U_e$

Type of reset

Automatic

Repeat accuracy

%	$\pm 0.1$
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Tripping time for phase loss

ms	60
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**Relay outputs**

Number of relays

Nr.	1
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Relay state

Normally  
energised De-  
energises at  
tripping

Contact arrangement

1 changeover  
SPDT

Rated operational voltage AC (IEC)

VAC	250
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Maximum switching voltage

VAC	400
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IEC Conventional free air thermal current  $I_{th}$

A	8
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UL/CSA and IEC/EN 60947-5-1 designation

B300

Electrical life (with rated load)

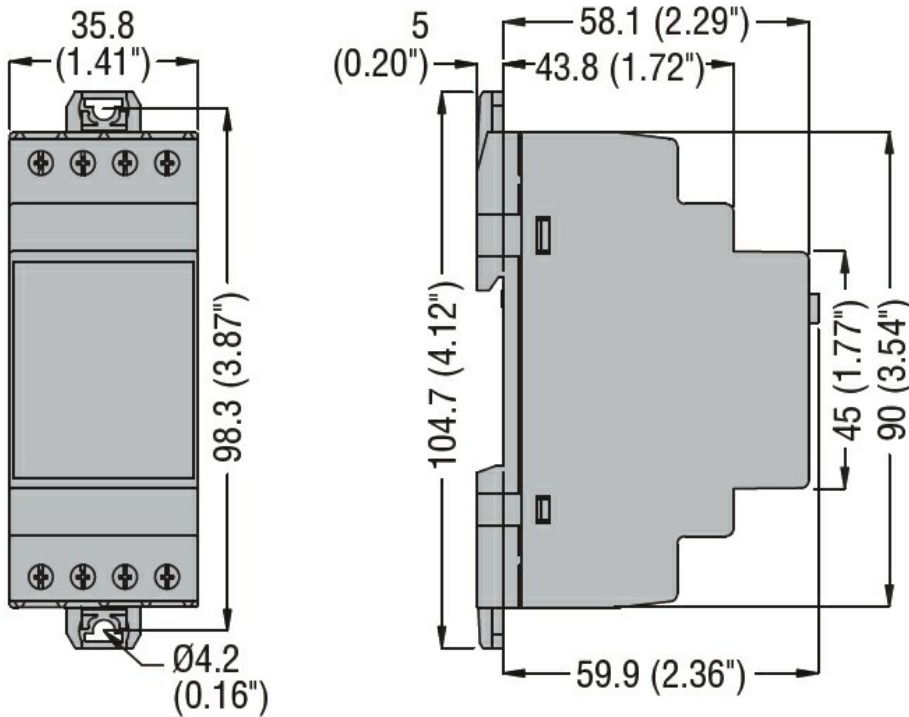
cycles	100000
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Mechanical life

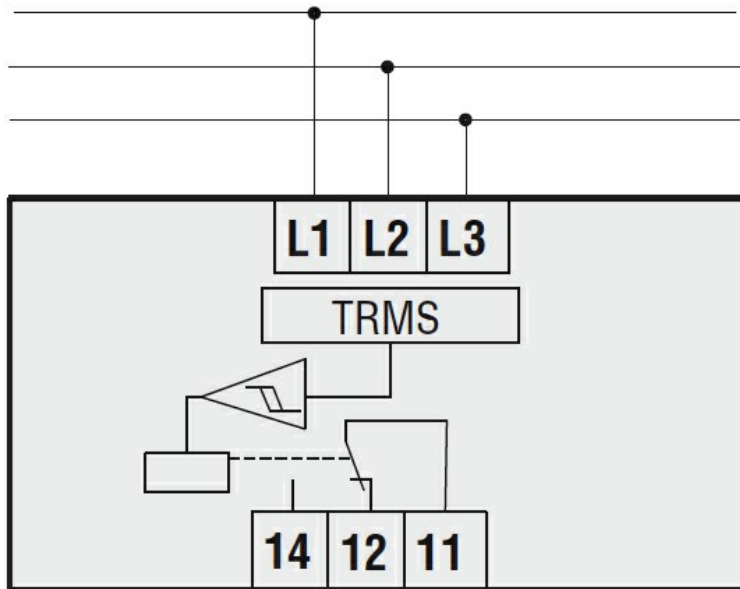
cycles	3000000
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**Functions**

Modular version				2U
Minimum AC voltage				Yes
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 and 1 red LED for 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	130
<b>Dimensions</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