



Product designation

Product type designation

Voltage
monitoring relays
PMV50

General characteristics

Description

Minimum and
maximum 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 11

Power dissipation Max

W 2.5

Control circuit

Rated voltage to control (U_e)

min	VAC	208
Max	VAC	240

Voltage set-point ($\%U_e$)

min	%	80...95
Max	%	105...115

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

% $< \pm 0.1$

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

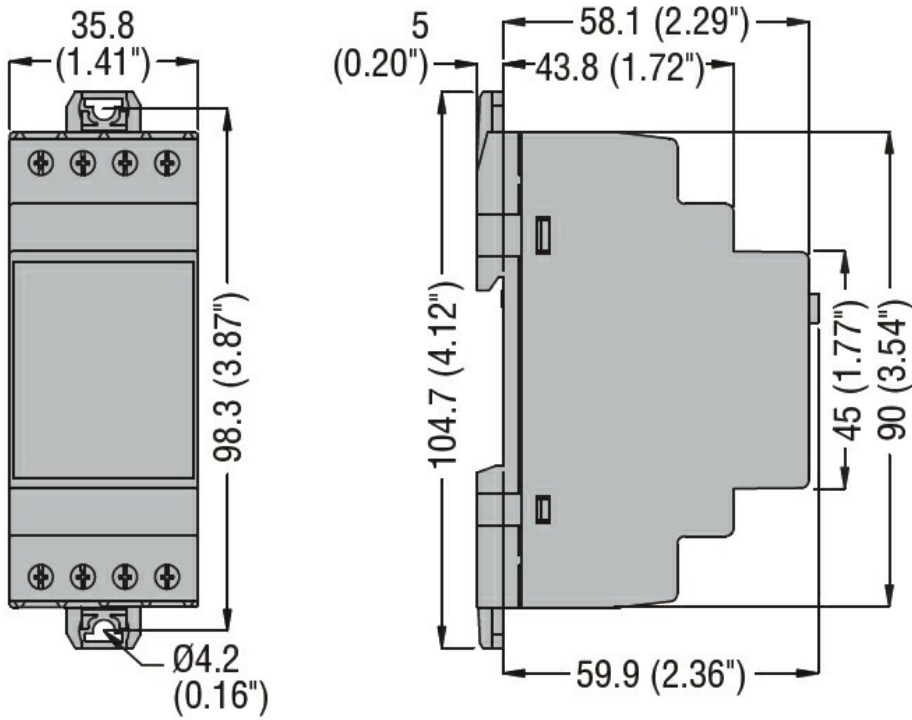
UL/CSA and IEC/EN 60947-5-1 designation

B300

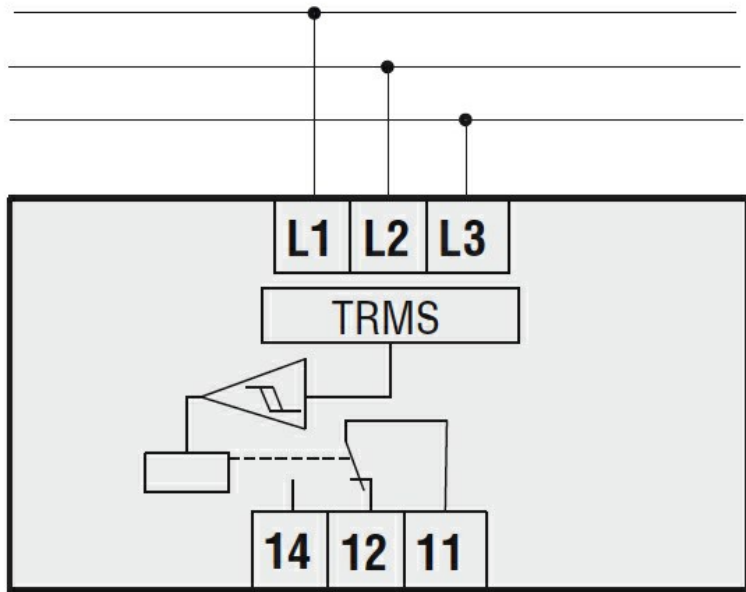
Electrical life (with rated load)

cycles 100000

Mechanical life				cycles	30000000
Indications					
Indication					1 green LED for power on and tripping and 2 red LEDs for tripping
Connections					
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 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	130
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