



Product designation

Product type designation

Voltage
monitoring relays
PMV55

General characteristics

Description

Minimum and
maximum AC
voltage relay

Type of system

Single-phase

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 17

Power dissipation Max

W 1.5

Control circuit

Rated voltage to control (U_e)

min	VAC	380
Max	VAC	440

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

% $< \pm 0.1$

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

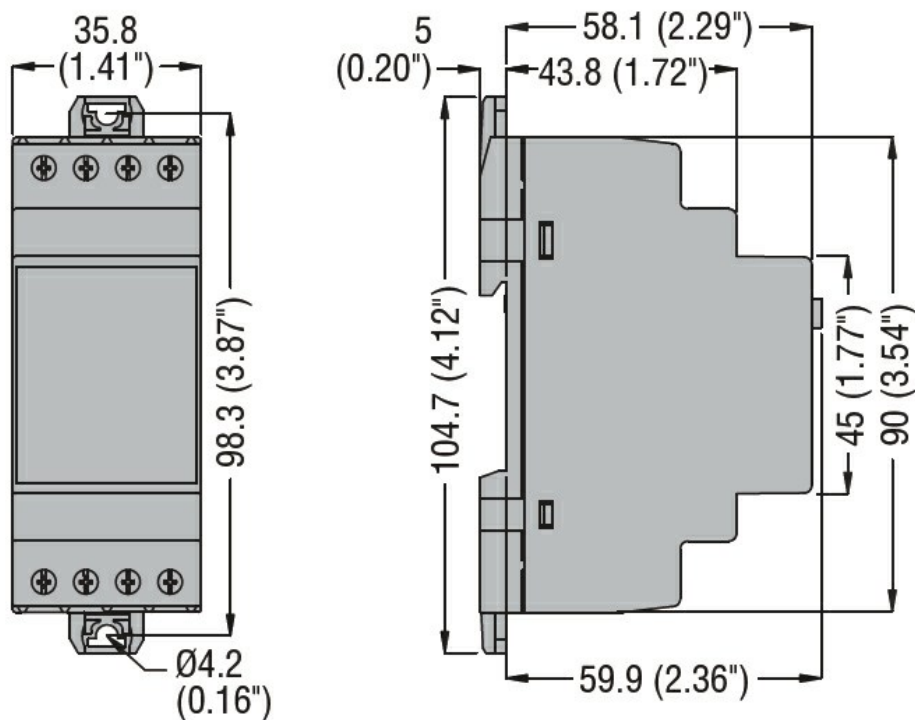
Minimum AC voltage

Yes

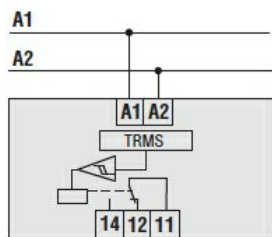
Maximum AC voltage

Yes

Minimum frequency				No
Maximum frequency				No
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
				mm²
				0.2
				Max
				mm²
				4
Insulations				
Rated insulation voltage Ui				V
				440
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
				125
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