



Product designation

Product type designation

Voltage
monitoring relays
PMV30

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

%	± 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

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
		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

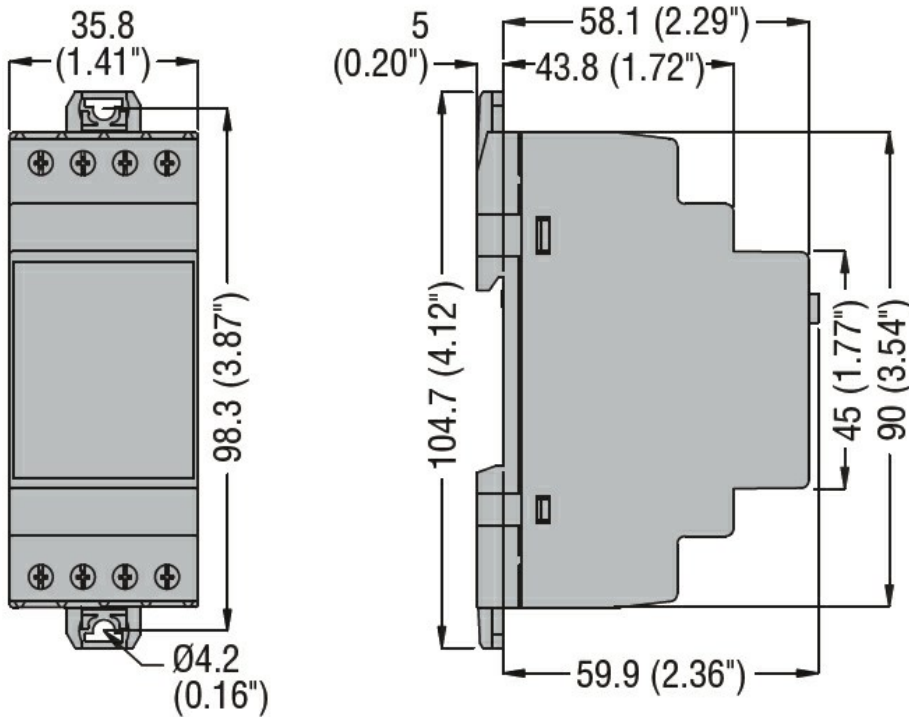
Ambient conditions

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

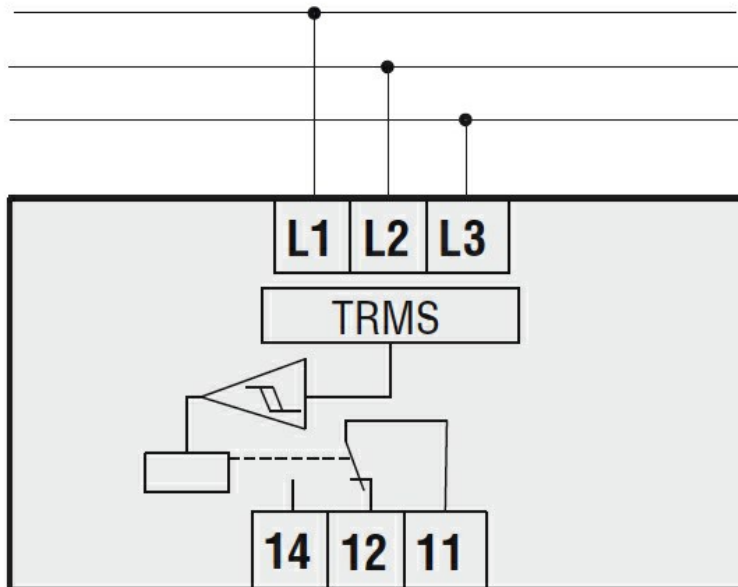
Housing

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 [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