



Voltage
monitoring relays
PMV30

Product designation

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	19
Power dissipation Max	W	2.5

Control circuit

Rated voltage to control (U_e)	min	VAC	600
Voltage set-point ($\%U_e$)	min	%	80...95
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
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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
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

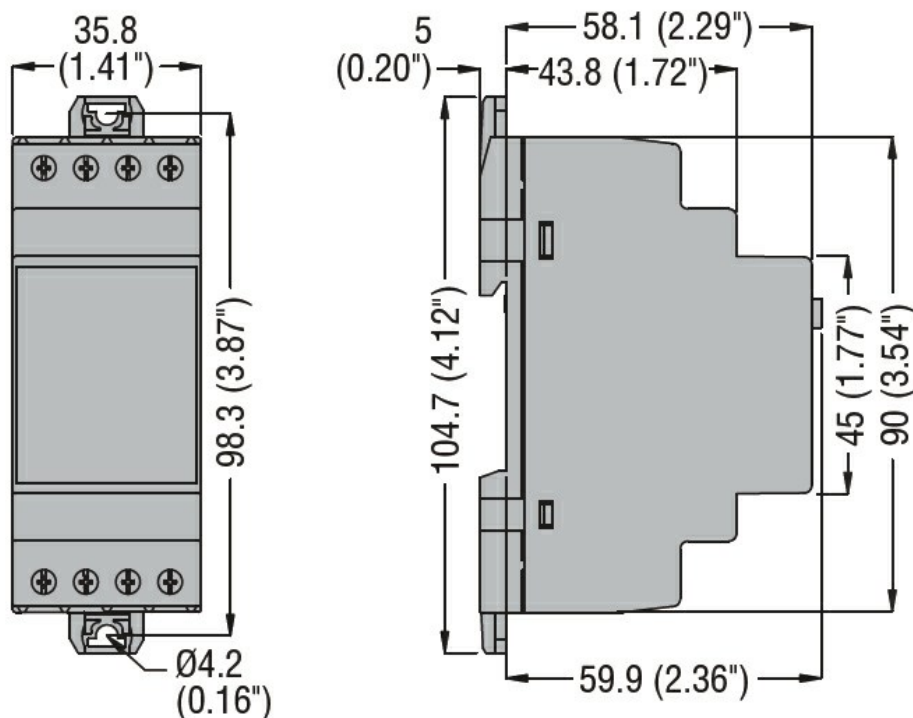
Ambient conditions

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

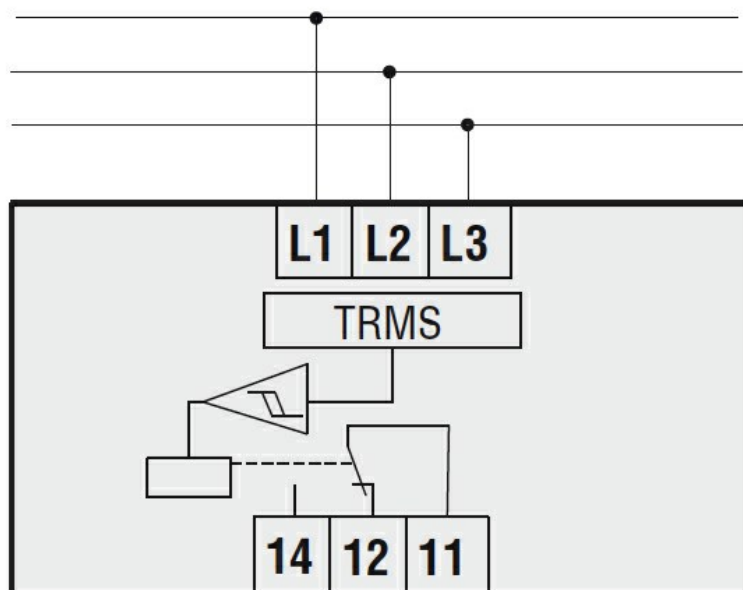
Housing

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 -
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