



Product designation

Product type designation

General characteristics

Voltage  
monitoring relays  
PMV30

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 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
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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

### 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 <sup>2</sup>	0.2
Max	mm <sup>2</sup>	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

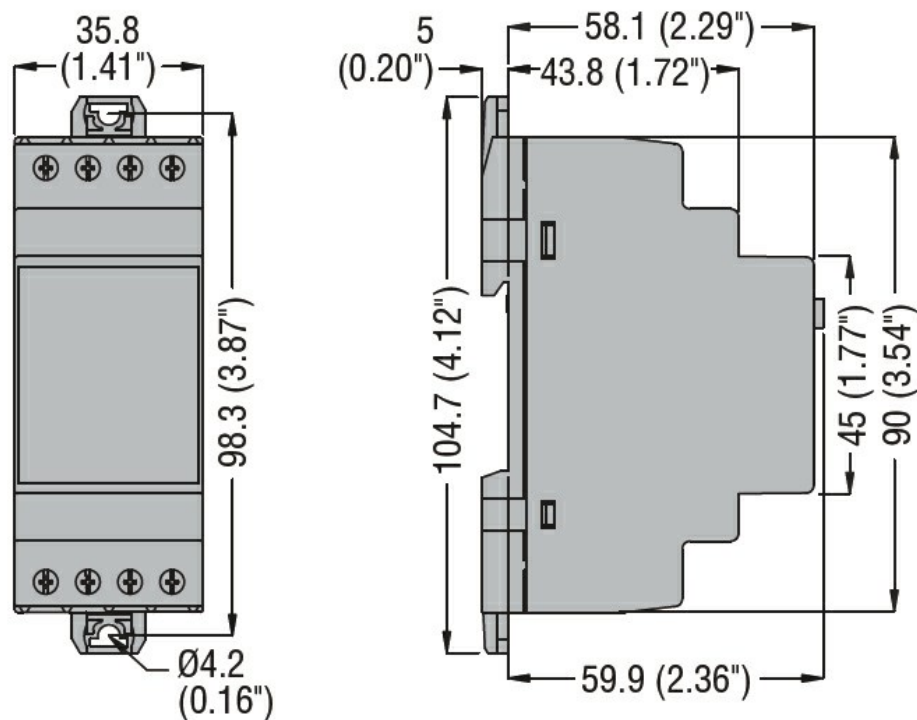
Storage temperature

min	°C	-30
max	°C	+80

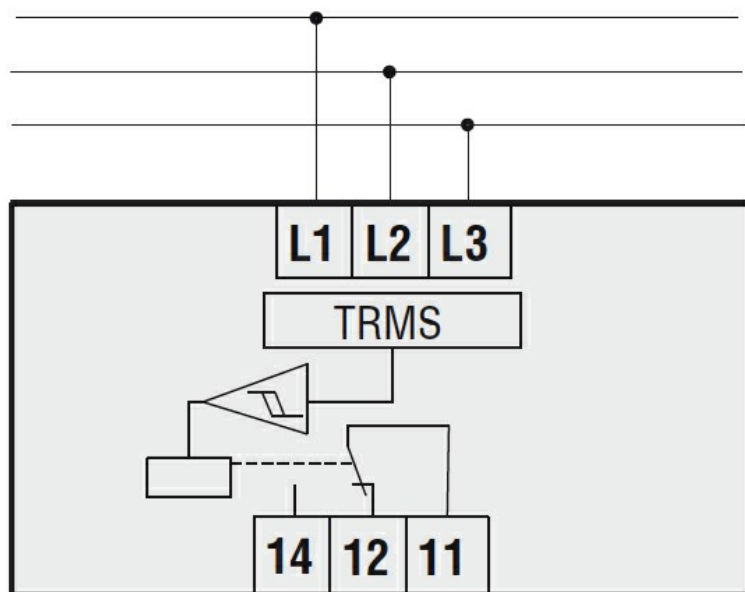
### Housing

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