



Product designation

Product type designation

Voltage
monitoring relays
PMV40

General characteristics

Description

Asymmetry,
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 Max	VAC VAC	380 575
Asymmetry set-point ($\%U_e$)		%	5...15
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		%	$\leq \pm 0.1$
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

Functions

Modular version	2U
Minimum AC voltage	No

Maximum AC voltage	No
Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	Yes

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

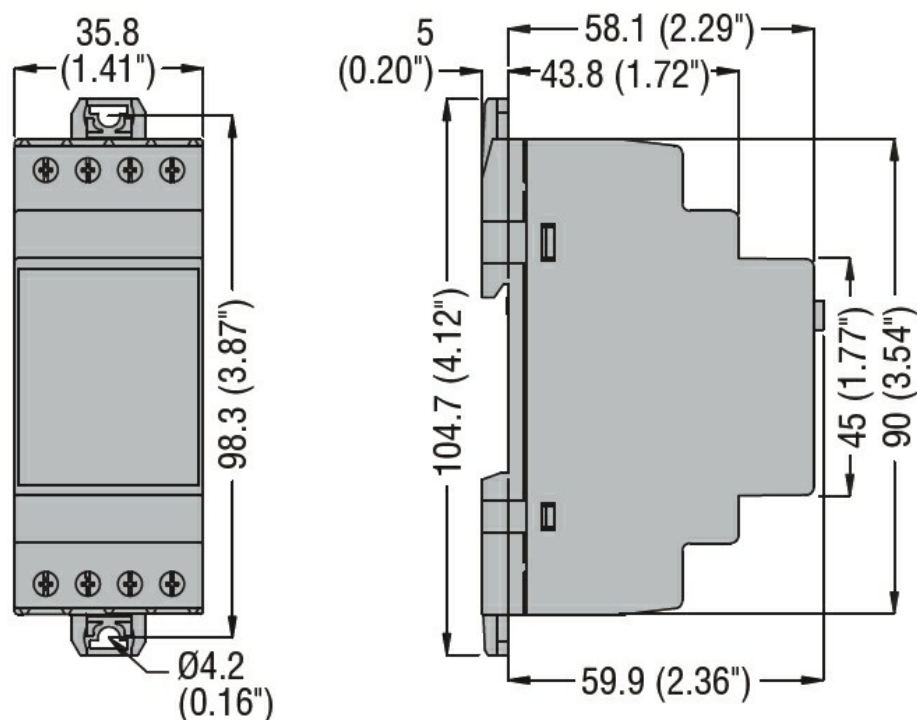
Ambient conditions

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

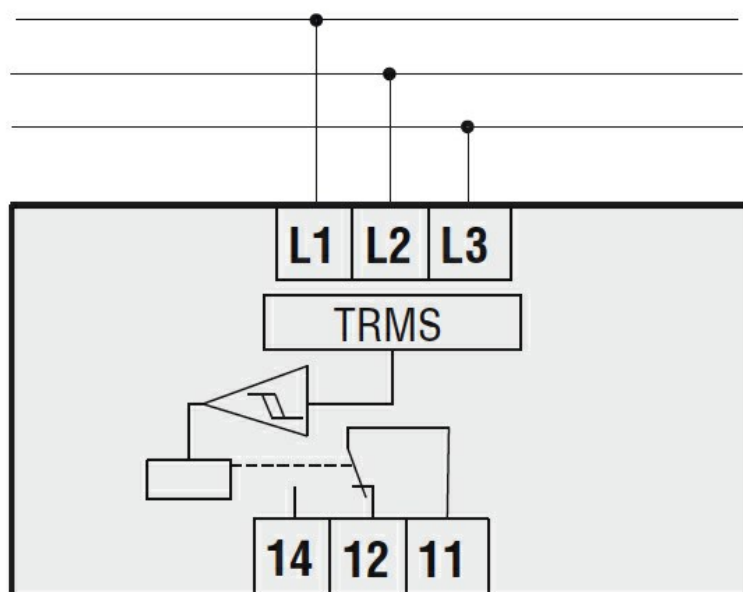
Housing

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 -
Voltage
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