



Multifunction voltage and frequency monitoring relays with NFC technology PMV95N

Product designation

Product type designation

### General characteristics

Description

Minimum and maximum AC voltage, minimum and maximum frequency, phase loss, neutral loss, incorrect phase sequence and asymmetry relay

Type of system

Three-phase with/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
	Max	%	105...115
Asymmetry set-point ( $\%U_e$ )		%	5...15
Frequency set-point (% rated frequency)	min	%	90...99
	Max	%	101...110
Tripping delay		s	0.1...30
Resetting time		s	0.1...30
Resetting hysteresis		%	1...5
Instantaneous tripping for $U_e$			Voltage $< 70\% U_e$
Type of reset			Automatic or manual
Repeat accuracy		%	$\leq \pm 0.1$
<b>Relay outputs</b>			
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 Ith	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		
Natural loss	Yes		
Phase loss	Yes		
Incorrect phase sequence	Yes		
Asymmetry	Yes		
Minimum frequency	Yes		
Maximum frequency	Yes		
Programmable via NFC technology and APP	Yes		

#### Indications

Indication	1 green LED for power and 5 red LEDs for tripping		
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#### Connections

Terminals type	Screw		
Tightening torque for terminals	max	Nm	0.8
	max	Ibin	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

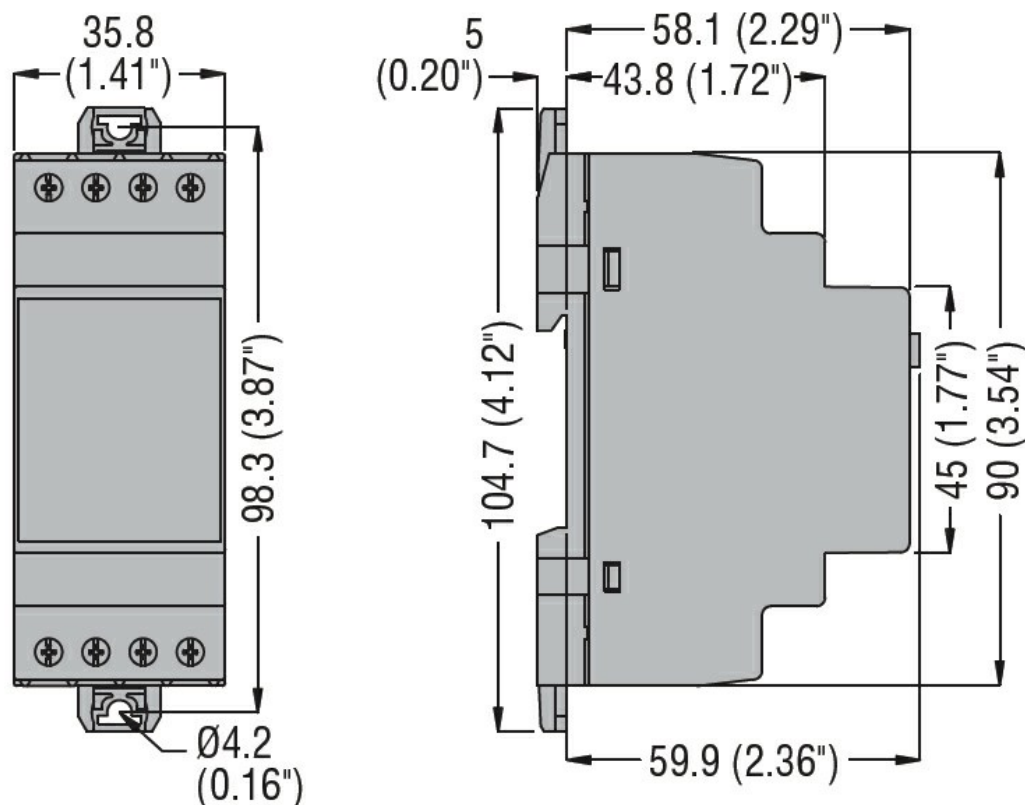
Temperature			
Operating temperature	min	°C	-20
	max	°C	+60
Storage temperature	min	°C	-30
	max	°C	+80

#### Housing

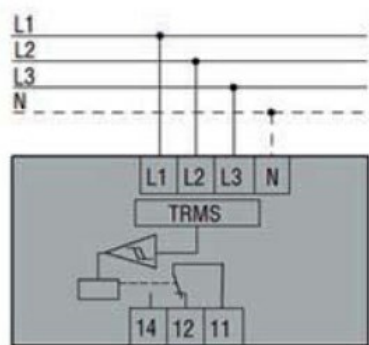
Execution (n° of modules)	2		
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Material	Self-extinguishing polyamide	
Mounting	35mm DIN rail (IEC/EN 60715)	
IEC degree of protection	IP40 on front; IP20 at terminals	
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
Weight	g	130

#### Dimensions



#### Wiring diagrams



#### Certifications and compliance

##### Compliance

CSA C22.2 n°14  
IEC/EN 60255-26  
IEC/EN 60255-27  
UL508

##### Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC001438 -  
Voltage  
monitoring relay