



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

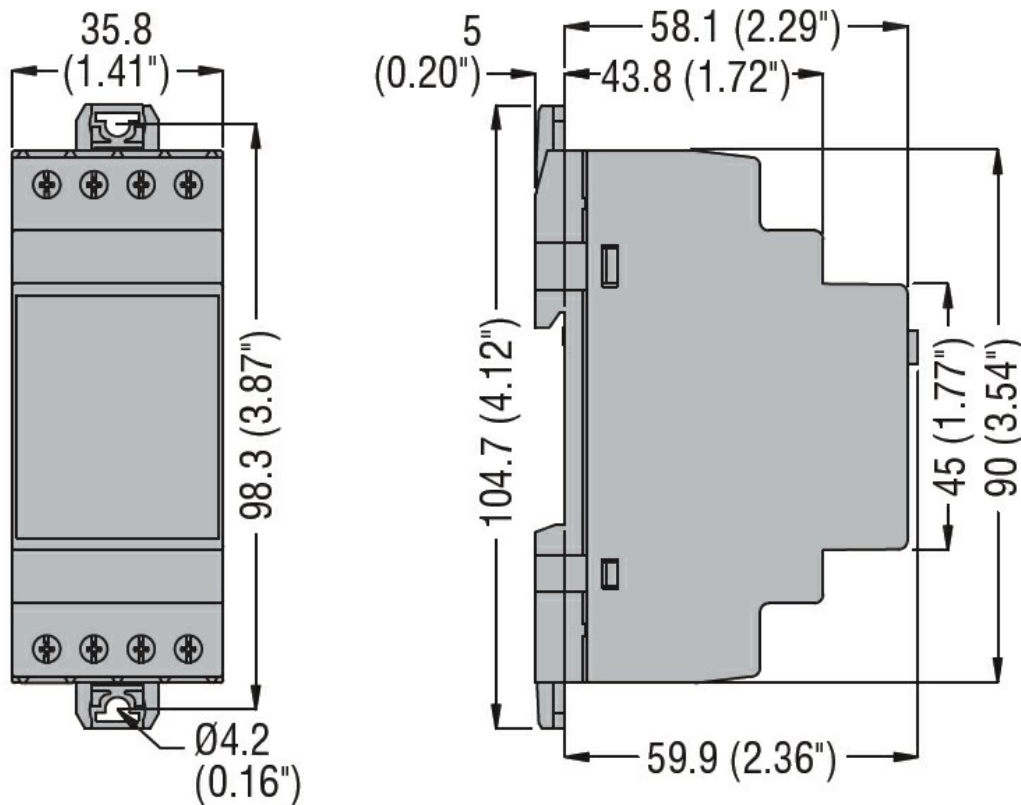
### Power supply

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

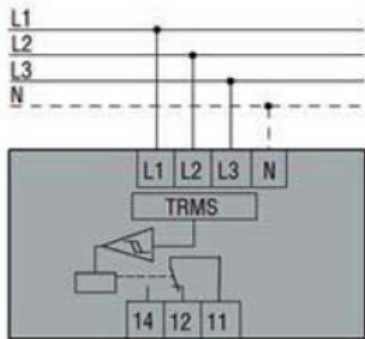
### Control circuit

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		%	$\pm 0.1$
<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	
Indications				
Indication				1 green LED for power and 5 red LEDs for tripping
Connections				
Terminals type	Screw			
Tightening torque for terminals			max	Nm
			max	Ibin
				0.8
				7
Conductor cross section				
	AWG/Kcmil		min	AWG
			Max	AWG
				24
				12
	IEC		min	mm²
			Max	mm²
				0.2
				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
			max	°C
				-20
				+60
	Storage temperature		min	°C
			max	°C
				-30
				+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 60255-26

IEC/EN 60255-27

UL508

### Certificates

cULus

EAC

## ETIM classification

ETIM 8.0

EC001438 -  
Voltage  
monitoring relay