

18 Monitoring relays

Multifunction voltage and frequency monitoring relays.
Frequency monitoring relays.

Multifunction voltage and frequency monitoring relays for three-phase systems with or without neutral, with NFC technology and APP



PMV95N...

new



NFC



Order code	Rated voltage to control Ue (phase to phase)	Qty per pkg	Wt
	[V] 50/60Hz	n°	[kg]

Three-phase system, with or without neutral.
Minimum and maximum AC voltage, minimum and maximum frequency and asymmetry. Delayed trip.
Phase loss, neutral loss and phase sequence. Instantaneous trip.
Programmable via smartphone or tablet with NFC technology and APP.

PMV95N A240 NFC	208...240VAC	1	0.130
PMV95N A575 NFC	380...575VAC	1	0.130

General characteristics

- Multifunction voltage and frequency monitoring relay, self powered, for minimum and maximum voltage, minimum and maximum frequency, phase loss, neutral loss, incorrect phase sequence and asymmetry.
- NFC connectivity for parameter setting with **NFC APP**, may be downloaded for free from Google Play Store
- Simple, fast and intuitive programming
- Very high accuracy and repeatability of the settings
- Possibility to save the program on smartphone or tablet to be copied on other PMV95N, even with device powered off
- Possibility to enable or disable individually the functions of interest
- Possibility to protect the settings with a password
- QR code for the direct connection to the LOVATO Electric website for the download of the technical manual
- Excellent tripping accuracy
- TRMS measurements (True Root Mean Square)
- Phase loss detection if one of the voltages is <70% rated value
- 1 relay output with changeover contact (SPDT)
- Modular DIN 43880 housing, 2 modules
- IEC degree of protection: IP40 on front (only when placed in IP40 enclosure or control board); IP20 at terminals.

ADJUSTMENTS:

Consult the technical manual on the website www.LovatoElectric.com.

Certifications and compliance

Certifications (pending): cULus, EAC.
Compliant with standards: IEC/EN 60255-5, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 508, CSA C22.2 n° 14.

Frequency monitoring relay for single and three-phase systems



PMF20...

Order code	Rated voltage Ue	Qty per pkg	Wt
	[V] 50/60Hz	n°	[kg]

Single and three-phase systems.
Minimum and maximum frequency. Delayed trip.
Automatic reset.

PMF20 A240	220...240VAC	1	0.125
PMF20 A415	380...415VAC	1	0.125

General characteristics

- Frequency monitoring relay, self powered, for minimum and maximum control
- Rated frequency selection: 50 or 60Hz
- Tripping threshold for minimum and maximum frequency
- Excellent tripping accuracy
- 1 relay output, configurable, with 1 changeover contact (SPDT)
- Modular DIN 43880 housing, 2 modules
- IEC degree of protection: IP40 on front (only when placed in IP40 enclosure or control board); IP20 at terminals.

ADJUSTMENTS

- "Hz max" Maximum frequency tripping threshold +1...+10%
- "Delay" Tripping time 0.1...20s
- "Hz min" Minimum frequency tripping threshold -1...-10%
- "Delay" Tripping time 0.1...20s
- "Reset delay" Resetting time 0.1...20s
- "Mode"
 - Minimum and maximum frequency
 - Output relay energised at maximum frequency
 - Output relay energised at minimum frequency
 - Output relay de-energised at maximum frequency

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices.
Compliant with standards: IEC/EN 60255-5, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 508, CSA C22.2 n° 14.