



LP10 VOLTAGE PROTECTION RELAY

Applications:

Motor protection, Server rooms, Control system

Features:

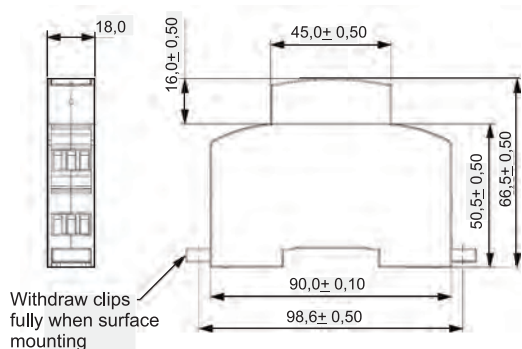
- Compact size 17.5 mm.
- True RMS measurement.
- Under voltage protection.
- Over voltage protection.
- Phase unbalance protection.
- Phase failure protection.
- Phase incorrect sequence protection.
- Neutral failure protection.
- Adjustable Nominal voltage, Trip point, Trip time delay.
- Onsite selection of VLL / VLN value based tripping.
- Self powered.
- 1CO, 1CO+1CO relay configuration.
- LED indication for faults.
- Disabling of Over & Under Voltage fault on site is possible.

Parameter Settings:

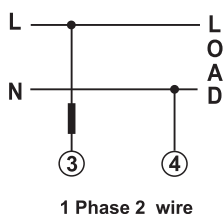
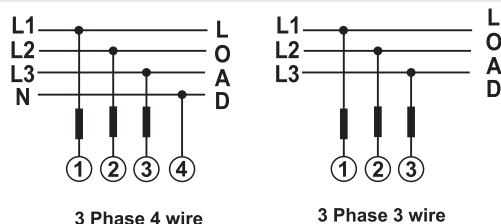
Nominal AC Voltage (Vn) (Variable)	3 Phase : L : 110-240 VLL / 63-138 VLN M : 381-388-415 VLL / 220-230-240 VLN H : 415-440-480 VLL / 240-254-277 VLN
	1 Phase : L : 58-63-110-120-127-138 VLN H : 220-230-240-254 VLN
Over Voltage Trip point	105-125% (Variable)
Under Voltage Trip point	75-95% (Variable)
Voltage Unbalance*	Trip point : 20% (Fixed)
Phase Failure	Trip point : 70 % (Fixed)
Hysteresis value	3% (Fixed) of Trip point
	3% (Fixed) of Vn for Unbalance
Trip delay	0-10 seconds variable for Undervoltage, Over voltage and Unbalance Instant tripping for Phase reversal, Neutral fail and Phase fail conditions
Reset Delay	1 second (Fixed)
Power On Delay	Approx. 3 seconds (Fixed)

* Setting is not applicable in 1 Phase model

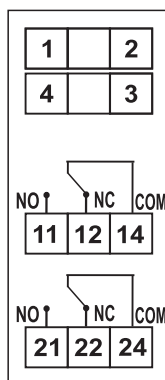
Dimensions Details:



Electrical Connection:



Terminal Details:



Note- Relay Contacts shown are in power off condition

Technical Specifications:

Input Voltage

Nominal Input Voltage (AC RMS) (Programmable on site)	3 Ph : L.V. : 110-240VLL (63-138VLN)
	: M.V. : 381-388-415VLL (220-230-240VLN)
	: H.V. : 415-440-480VLL (240-254-277VLN)
	1 Ph : L.V. : 58-63-110-120-127-138VLN
	: H.V. : 220-230-240-254VLN

Max Continuous Input Voltage	127% of nominal value
Nominal Frequency	50 / 60 Hz
Input Voltage Burden Per Phase	< 2 VA approx.
Input Voltage Burden Three Phase	< 4 VA approx.

Operating Measuring Ranges

Voltage Range	70...125% of nominal value
---------------	----------------------------

Operating reference condition

Reference Condition	23°C +/- 2°C
Input waveform	Sinusoidal (distortion factor 0.005)
Input Frequency	50 / 60 Hz ± 2%

Accuracy

Tripping Accuracy	± 3% of Nominal Value
	± 0.8 sec for Trip delay

Response Time	Less than 200 msec
---------------	--------------------

Applicable Standards

Safety	IEC 61010-1-2010
IP for water & dust	IEC60529
Pollution degree:	2
Installation category:	CAT III
High Voltage Test	2.2 kV AC, 50Hz for 1 minute between all Electrical circuits.

Environmental

Operating temperature	-10 to +55°C
Storage temperature	-25 to +70°C
Relative humidity	0...90% non condensing
Shock	15g in 3 planes
Vibration	10...55 Hz, 0.15mm amplitude
Enclosure	IP20 (front face only)

Relay Contacts

Types of output	1CO, 1CO+1CO
Contact Ratings (Res. Load)	5A/250VAC/30VDC (resistive load)
Mechanical Endurance	1x10 ⁷ OPS
Electrical Endurance	1x10 ⁵ OPS

Mechanical Attributes

Weight	80 gm Approx.
--------	---------------

LED Indication	Continuous ON	Blinking
P-ON	Power On	Incorrect Phase Sequence
UV/PF	Under Voltage	Phase Fail
OV	Over Voltage	—
UB/NF	Unbalanced Voltage	Neutral Fail

Ordering Code

Monitoring relay LP10	X	X	X	X	X	X	0000000
Type:							
Voltage protection relay	V						
System type:							
1-phase		1					
3-phase		3					
System voltage:							
58-138 V (L-N)			5				
220-254 V (L-N)			8				
110-240 V (L-L)			1				
415-480 V (L-L)			6				
381-415 V (L-L)			7				
System frequency:							
50/60 Hz				0			
Relay configuration:							
NC - normally closed					1		
NO - normally open					2		
Output:							
1 relay						1	
2 relays						2	
Version:							
standard							0000000

Order example:

The code **LP10 V370110000000** means the voltage protection relay for 3 phase network, nominal voltage 381-415 V (L-L), 50/60Hz, with 1 relay normally closed.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Industrial Relays](#) category:

Click to view products by [LUMEL](#) manufacturer:

Other Similar products are found below :

[6-1617801-8](#) [6-1618107-9](#) [7-1618273-3](#) [EV250-4A-02](#) [EV250-6A-01](#) [FCA-325-159](#) [FCA-410-138](#) [8-1618273-6](#) [9-1618397-7](#)
[GCA32A208VAC60HZ](#) [GCA63A600VAC60HZ](#) [1-1833005-4](#) [H-16/S1](#) [H-8C](#) [H-8/S68](#) [ACC530U20](#) [RF303ZM4-12](#) [DH18DA](#) [AR4-15F13-](#)
[C01](#) [AR7-41F11](#) [ATL68011](#) [EB3L-S10SAN](#) [AVR907](#) [B329](#) [B490A](#) [1617020-1](#) [1618095-3](#) [1618104-9](#) [1618279-1](#) [BHR124Y](#) [N417](#)
[2071229-4](#) [2-1617748-6](#) [2-1618396-6](#) [2-1618398-1](#) [JMAPD-5XL](#) [PBE-120/208-ASE](#) [JMGACD-5M](#) [JMGSCD-5L](#) [PBO-40A3040](#) [KA-3C-](#)
[12A](#) [RT334012WG](#) [SAH159](#) [SF5201F02](#) [301-17SX](#) [SL6H3-26.5VDC](#) [1618105-2](#) [1618112-6](#) [1618276-6](#) [A837D](#)