

ENERGY AND AUTOMATION

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE AND ASYMMETRY. PHASE LOSS, NEUTRAL LOSS AND INCORRECT PHASE SEQUENCE, 480...600VAC 50/60HZ



Product designation			Voltage
•			monitoring relays PMV70N
Product type designation General characteristics			PIVIV/UIN
General Characteristics			Minimum and
			maximum AC
			voltage, phase
Description			loss,neutral loss,
			incorrect phase
			sequence and
			asymmetry relay
To a standard			Three-phase
Type of system			with/without
Power supply			neutral
Auxiliary supply voltage Us			Self powered
Operating voltage voltage os			0.71.2 Ue
Rated frequency		Hz	50/60 ±5%
Power consumption Max		VA	27
Power dissipation Max		W	1.9
Control circut			1.0
Rated voltage to control (Ue)			
······································	min	VAC	480
	Max	VAC	600
Voltage set-point (%Ue)			
	min	%	8095
	Max	%	105115
Asymmetry set-point (%Ue)		%	515
Tripping delay		S	0.120
Resetting time		S	0.5
Resetting hysteresis		%	3
Instantaneous tripping for Ue			Voltage <70% Ue
Type of reset			Automatic
Repeat accuracy		%	<±0.1
Tripping time for phase loss		ms	60
Relay outputs			
Number of relays		Nr.	2
			Normally
Relay state			energised De- energises at
			tripping
			2 changeover
Contact arrangement			2 changeover SPDT
Contact arrangement Rated operational voltage AC (IEC)		VAC	2 changeover SPDT 250
		VAC VAC	SPDT
Rated operational voltage AC (IEC)			SPDT 250



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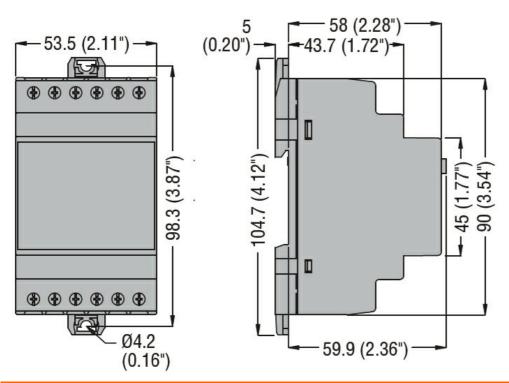
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)		cycles	100000
Mechanical life		cycles	3000000
Functions		Cycles	3000000
Modular version			3U
Minimum AC voltage			Yes
Maximum AC voltage			Yes
Natural loss			Yes
Phase loss			Yes
Incorrect phase sequence			Yes
Asymmetry			Yes
Minimum frequency			No
Maximum frequency			No
Programmable via NFC technology and APP			No
Indications			
			1 green LED for
Indication			power on and
			tripping and 3 red
Connections			LEDs for tripping
Connections Terminals type			Screw
Tightening torque for terminals			Sciew
rightering torque for terminals	max	Nm	0.8
	max	Ibin	7
Conductor cross section	IIIax	10111	
AWG/Kcmil			
/// G/Normin	min	AWG	24
	Max	AWG	12
IEC			
	min	mm²	0.2
	Max	mm²	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			0
Execution (n° of modules)			3
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	200



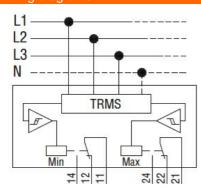
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Dimensions



Wiring diagrams



Certifications and compliance

Compliance

IEC/EN 60255-5 IEC/EN 61000-6-2

IEC/EN 61000-6-3

Certificates

EAC

ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay