ENERGY AND AUTOMATION

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



			Voltage
Product designation			monitoring relays
Product type designation			PMV50
General characteristics			
Description			Minimum and maximum AC voltage, phase loss and incorrect phase sequence relay Three-phase
Type of system			without neutral
Power supply			
Auxiliary supply voltage Us			Self powered
Operating voltage range			0.71.2 Ue
Rated frequency		Hz	50/60 ±5%
Power consumption Max		VA	19
Power dissipation Max		W	2.5
Control circut			
Rated voltage to control (Ue)			
	min	VAC	600
Voltage set-point (%Ue)			
13.14.go 33.1 po (7.35.5)	min	%	8095
	Max	%	105115
Tripping delay		S	0.120
			0.120 (0.5 at
Resetting time		S	power up)
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.	1
Relay state			Normally energised De- energises at tripping
Contact arrangement			1 changeover SPDT
Rated operational voltage AC (IEC)		VAC	250
		VAC VAC	250 400
Rated operational voltage AC (IEC) Maximum switching voltage IEC Conventional free air thermal current Ith			
Maximum switching voltage IEC Conventional free air thermal current Ith		VAC	400 8
Maximum switching voltage IEC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation		VAC A	400 8 B300
Maximum switching voltage IEC Conventional free air thermal current Ith		VAC	400 8



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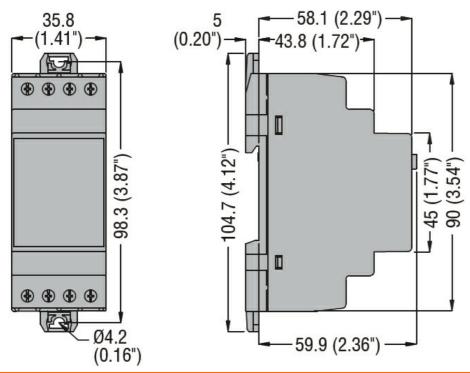
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Functions			
Modular version			2U
Minimum AC voltage			Yes
Maximum AC voltage			Yes
Phase loss			Yes
Incorrect phase sequence			Yes
Asymmetry			No
Indications			
			1 green LED for
Indication			power on and
			tripping and 2 red LEDs for tripping
Connections			LLD3 for tripping
Terminals type			Screw
Tightening torque for terminals			OCICW
rightening torque for terminals	max	Nm	0.8
	max	Ibin	7
Conductor cross section	max	10111	<u>'</u>
AWG/Kcmil			
AWO/ACIIII	min	AWG	24
	Max	AWG	12
IEC	IVICA	71110	
	min	mm²	0.2
	Max	mm²	4
Insulations			
Insulations Rated insulation voltage Ui		V	600
Rated insulation voltage Ui		V	600
Rated insulation voltage Ui Rated impulse withstand voltage Uimp			
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage		V kV	600
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions		V kV	600
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature		V kV	600
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions	min	V kV	600
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature		V kV kV	600 6 4
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature	min	V kV kV	600 6 4 -20
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature	min	V kV kV	600 6 4 -20
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature	min max	V kV kV °C	600 6 4 -20 +60
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature	min max min	V kV kV °C °C	600 6 4 -20 +60
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature	min max min	V kV kV °C °C	600 6 4 -20 +60
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules)	min max min	V kV kV °C °C	600 6 4 -20 +60 -30 +80
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing	min max min	V kV kV °C °C	600 6 4 -20 +60 -30 +80 2 Self-extinguishing polyamide
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material	min max min	V kV kV °C °C	600 6 4 -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules)	min max min	V kV kV °C °C	600 6 4 -20 +60 -30 +80 2 Self-extinguishing polyamide
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting	min max min	V kV kV °C °C	600 6 4 -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front;
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material	min max min	V kV kV °C °C	600 6 4 -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; IP20 at terminals
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting IEC degree of protection	min max min	V kV kV °C °C °C	600 6 4 -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; IP20 at terminals 35.8 x 104.7 x
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting IEC degree of protection Dimensions (W x H x D)	min max min	V kV kV °C °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; IP20 at terminals 35.8 x 104.7 x 64.9
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting IEC degree of protection	min max min	V kV kV °C °C °C	600 6 4 -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; IP20 at terminals 35.8 x 104.7 x

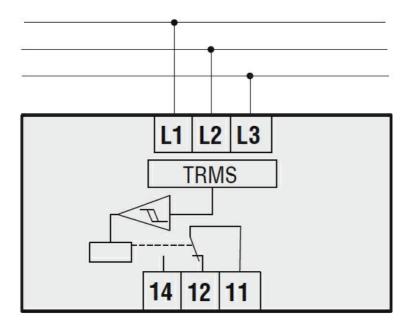


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Wiring diagrams



Certifications and compliance			
Compliance	·		
	CSA C22.2 n° 14		
	IEC/EN 60255-5		
	IEC/EN 61000-6-2		
	IEC/EN 61000-6-3		
	UL 508		
Certificates			
	cULus		
	EAC		

PMV50A600



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ETIM classification

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ETIM 8.0

EC001438 -Voltage monitoring relay