

ENERGY AND AUTOMATION

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

30U	.575°	VAC:	00/00	ᄱᅩ

Product designation		Voltage
Product type designation		monitoring relays PMV50
General characteristics		
Description		Minimum and maximum AC voltage, phase loss and incorrect phase sequence relay
Type of system		Three-phase without neutral
Power supply		Without Houtian
Auxiliary supply voltage Us		Self powered
Operating voltage range		0.71.2 Ue
Rated frequency	Hz	50/60 ±5%
Power consumption Max	VA	30
Power dissipation Max	W	2.5
Control circut		
Rated voltage to control (Ue)		
	min VAC	380
	Max VAC	575
Voltage set-point (%Ue)		
	min %	8095
	Max %	105115
Tripping delay	S	0.120
Resetting time	S	0.120 (0.5 at 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
Maximum switching voltage	VAC	400
IEC Conventional free air thermal current Ith	А	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycle	s 100000



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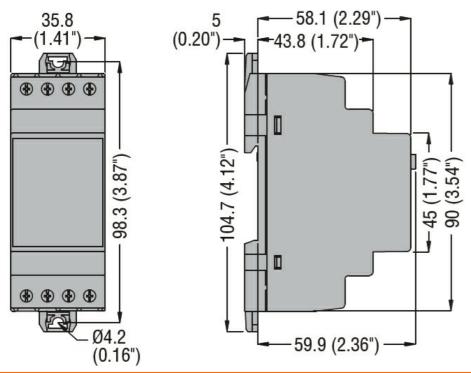
380...575VAC 50/60HZ

Mechanical life			cycles	30000000
Functions				
Modular version				2U
Minimum AC voltage				Yes
Maximum AC voltage	9			Yes
Phase loss				Yes
Incorrect phase sequ	uence			Yes
Asymmetry				No
Indications				
				1 green LED for
Indication				power on and
marcation				tripping and 2 red
0 "				LEDs for tripping
Connections				
Terminals type				Screw
Tightening torque for	terminals			
		nax	Nm	0.8
		nax	Ibin	7
Conductor cross sec				
	AWG/Kcmil			
		min	AWG	24
		Лах	AWG	12
	IEC		_	
		min	mm²	0.2
	Λ	Лах	mm²	4
and the second s				
Insulations				000
Rated insulation volta			V	600
Rated insulation volta	and voltage Uimp		kV	6
Rated insulation volta Rated impulse withst Operating frequency	and voltage Uimp			
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions	and voltage Uimp		kV	6
Rated insulation volta Rated impulse withst Operating frequency	and voltage Uimp withstand voltage		kV	6
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions	and voltage Uimp withstand voltage Operating temperature		kV kV	6 4
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions	and voltage Uimp withstand voltage Operating temperature	min	kV kV °C	-20
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions	and voltage Uimp withstand voltage Operating temperature	min nax	kV kV	6 4
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions	ond voltage Uimp withstand voltage Operating temperature r n Storage temperature	nax	kV kV °C °C	-20 +60
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions	and voltage Uimp withstand voltage Operating temperature r Storage temperature	nax min	kV kV °C °C	-20 +60
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature	and voltage Uimp withstand voltage Operating temperature r Storage temperature	nax	kV kV °C °C	-20 +60
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature Housing	and voltage Uimp withstand voltage Operating temperature r Storage temperature r n	nax min	kV kV °C °C	-20 +60 -30 +80
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature	and voltage Uimp withstand voltage Operating temperature r Storage temperature r n	nax min	kV kV °C °C	-20 +60 -30 +80
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature Housing	and voltage Uimp withstand voltage Operating temperature r Storage temperature r n	nax min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature Housing Execution (n° of mod	and voltage Uimp withstand voltage Operating temperature r Storage temperature r n	nax min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715)
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature Housing Execution (n° of mod Material	and voltage Uimp withstand voltage Operating temperature Storage temperature r n Storage temperature r n dules)	nax min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature Housing Execution (n° of mod Material Mounting	Operating temperature Storage temperature r n Storage temperature r n Storage temperature r n storage temperature	nax min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front;
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature Housing Execution (n° of mod Material Mounting IEC degree of protest	Operating temperature Storage temperature r n Storage temperature r n Storage temperature r n storage temperature	nax min	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
Rated insulation volta Rated impulse withst Operating frequency Ambient conditions Temperature Housing Execution (n° of mod Material Mounting IEC degree of protect	Operating temperature Storage temperature r n Storage temperature r n Storage temperature r n storage temperature	nax min	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

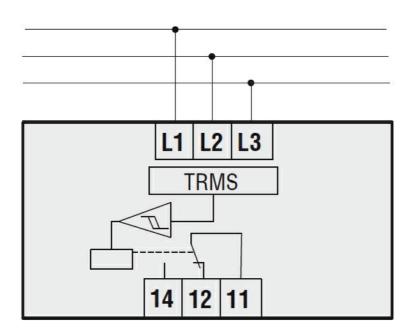


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Wiring diagrams



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





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ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay