

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

Draduat designation			Voltage
Product designation  Product type designation			monitoring relays PMV30
General characteristics			PIVIVOU
Description			Minimum AC voltage, phase loss and incorrect phase sequence relay
Type of system			Three-phase without neutral
Power supply			0.11
Auxiliary supply voltage Us			Self powered
Operating voltage range		1.1-	0.71.2 Ue
Rated frequency		Hz VA	50/60 ±5% 19
Power consumption Max  Power discipation Max		W	2.5
Power dissipation Max Control circut		VV	2.5
Rated voltage to control (Ue)			
Nated voltage to control (Oe)	min	VAC	600
Voltage set point (9/11a)	111111	VAC	000
Voltage set-point (%Ue)		0/	00 05
	min	%	8095
Tripping delay	min	% s	0.120
Tripping delay Resetting time	min	s s	0.120 0.120 (0.5 at power up)
Tripping delay Resetting time Resetting hysteresis	min	S	0.120 0.120 (0.5 at power up) 3
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue	min	s s	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue
Tripping delay Resetting time Resetting hysteresis	min	s s %	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset  Repeat accuracy	min	s s	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss	min	s s %	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy  Tripping time for phase loss  Relay outputs	min	s s % ms	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue Type of reset Repeat accuracy Tripping time for phase loss	min	s s %	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset  Repeat accuracy  Tripping time for phase loss  Relay outputs	min	s s % ms	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised Deenergises at tripping
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset  Repeat accuracy  Tripping time for phase loss  Relay outputs  Number of relays	min	s s % ms	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60 1 Normally energised Deenergises at
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays  Relay state	min	s s % ms	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised Deenergises at tripping 1 changeover
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays  Relay state  Contact arrangement	min	s s % ms	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised Deenergises at tripping 1 changeover SPDT
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays  Relay state  Contact arrangement  Rated operational voltage AC (IEC)	min	s s % % ms Nr.	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised Deenergises at tripping 1 changeover SPDT 250
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays  Relay state  Contact arrangement  Rated operational voltage AC (IEC) Maximum switching voltage	min	s s % % ms Nr.	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised Deenergises at tripping 1 changeover SPDT 250 400
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays  Relay state  Contact arrangement  Rated operational voltage AC (IEC) Maximum switching voltage IEC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation Electrical life (with rated load)		s s % % ms Nr.	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised Deenergises at tripping 1 changeover SPDT 250 400 8
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays  Relay state  Contact arrangement  Rated operational voltage AC (IEC) Maximum switching voltage IEC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation		s s % % ms Nr.  VAC VAC A	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised De- energises at tripping 1 changeover SPDT 250 400 8 B300
Tripping delay  Resetting time  Resetting hysteresis Instantaneous tripping for Ue  Type of reset Repeat accuracy Tripping time for phase loss Relay outputs Number of relays  Relay state  Contact arrangement  Rated operational voltage AC (IEC) Maximum switching voltage IEC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation Electrical life (with rated load)		s s % % ms Nr.  VAC VAC A cycles	0.120 0.120 (0.5 at power up) 3 Voltage <70% Ue Automatic <±0.1 60  1 Normally energised Deenergises at tripping 1 changeover SPDT 250 400 8 B300 100000



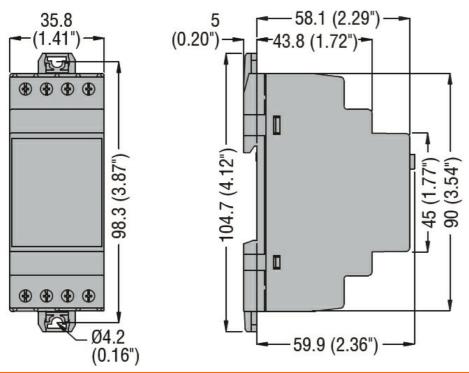
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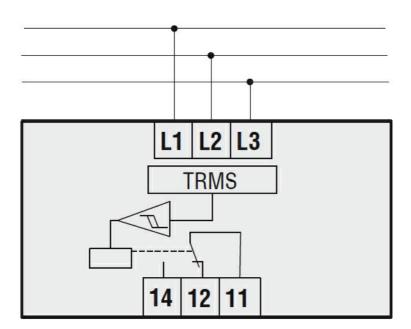
Minimum AC voltage				Yes
Maximum AC voltage				No
Phase loss				Yes
Incorrect phase seque	ence			Yes
Asymmetry				No
Indications				
				1 green LED for
Indication				power on and tripping and 1 red
				LED for tripping
Connections				LLB for tripping
Terminals type				Screw
Tightening torque for t	erminals			Oorow
rigitioning torque for t	ommaio	max	Nm	0.8
		max	lbin	7
Conductor cross secti	on	Пах	16111	_ <b>'</b>
	AWG/Kcmil			
	/ W S/Norm	min	AWG	24
		Max	AWG	12
	IEC			<u> </u>
		min	mm²	0.2
		Max	mm²	4
Insulations				
Rated insulation voltage	ge Ui		V	600
Rated insulation voltage Rated impulse withsta			V kV	600 6
Rated impulse withsta	nd voltage Uimp			
-	nd voltage Uimp		kV	6
Rated impulse withsta Operating frequency w Ambient conditions	nd voltage Uimp		kV	6
Rated impulse withsta Operating frequency w	nd voltage Uimp vithstand voltage		kV	6
Rated impulse withsta Operating frequency w Ambient conditions	nd voltage Uimp	min	kV	6
Rated impulse withsta Operating frequency w Ambient conditions	nd voltage Uimp vithstand voltage	min max	kV kV	6 4
Rated impulse withsta Operating frequency w Ambient conditions	nd voltage Uimp vithstand voltage		kV kV °C	-20
Rated impulse withsta Operating frequency w Ambient conditions	nd voltage Uimp vithstand voltage  Operating temperature		kV kV °C	-20
Rated impulse withsta Operating frequency w Ambient conditions	nd voltage Uimp vithstand voltage  Operating temperature	max	kV kV °C °C	-20 +60
Rated impulse withsta Operating frequency w Ambient conditions	nd voltage Uimp vithstand voltage  Operating temperature	max min	kV kV °C °C	-20 +60
Rated impulse withsta Operating frequency w Ambient conditions Temperature	ond voltage Uimp withstand voltage  Operating temperature  Storage temperature	max min	kV kV °C °C	-20 +60
Rated impulse withsta Operating frequency w Ambient conditions Temperature  Housing Execution (n° of modu	ond voltage Uimp withstand voltage  Operating temperature  Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80
Rated impulse withsta Operating frequency w Ambient conditions Temperature Housing	ond voltage Uimp withstand voltage  Operating temperature  Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide
Rated impulse withsta Operating frequency w Ambient conditions Temperature  Housing Execution (n° of modu	ond voltage Uimp withstand voltage  Operating temperature  Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail
Rated impulse withsta Operating frequency w Ambient conditions Temperature  Housing Execution (n° of modu Material  Mounting	Operating temperature  Storage temperature  storage temperature	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715)
Rated impulse withsta Operating frequency w Ambient conditions Temperature  Housing Execution (n° of modu Material	Operating temperature  Storage temperature  storage temperature	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail
Rated impulse withsta Operating frequency w Ambient conditions Temperature  Housing Execution (n° of modu Material  Mounting  IEC degree of protect	operating temperature  Storage temperature  Illes)	max 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 impulse withsta Operating frequency w Ambient conditions Temperature  Housing Execution (n° of modu Material  Mounting  IEC degree of protect  Dimensions (W x H x I	operating temperature  Storage temperature  Illes)	max 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
Rated impulse withsta Operating frequency w Ambient conditions Temperature  Housing Execution (n° of modu Material  Mounting  IEC degree of protect	operating temperature  Storage temperature  Illes)	max 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

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## Wiring diagrams



Certifications and co	mpliance
Compliance	
	CSA C22.2 n° 14
	IEC/EN 60255-5
	IEC/EN 61000-6-2
	IEC/EN 61000-6-3
	UL 508
Certificates	

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ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay