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Product designation			Voltage monitoring relays
Product type designation			PMV30
General characteristics			
Description			Minimum AC voltage, phase loss and incorrect phase sequence relay
Type of system			Three-phase 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)	_		
	min	%	8095
Tripping delay	min	% S	0.120
	min		
Tripping delay	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)
Tripping delay Resetting time Resetting hysteresis	min	s 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 Instantaneous tripping for Ue Type of reset	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 <±0.1
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
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	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 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	min	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)	min	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

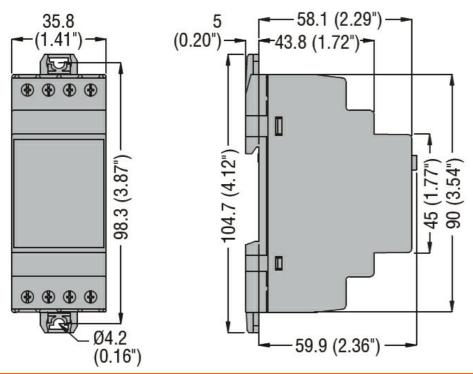


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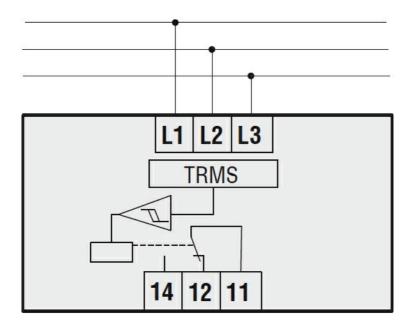
Minimum AC voltage			Yes
Maximum AC voltage Phase loss			No Yes
Incorrect phase sequence			Yes
Asymmetry			No
Indications			NO
indication o			1 green LED for
la disedica			power on and
Indication			tripping and 1 red
			LED for tripping
Connections			
Terminals type			Screw
Tightening torque for terminals			
	max	Nm	0.8
	max	Ibin	7
Conductor cross section			
AWG/Kcmil			
	min	AWG	24
150	Max	AWG	12
IEC		· 2	0.0
	min Max	mm² mm²	0.2 4
Insulations	IVIAX	IIIII-	4
insulations			
Rated insulation voltage I li		\/	600
Rated insulation voltage Ui		\ k\/	600
Rated impulse withstand voltage Uimp		kV	6
Rated impulse withstand voltage Uimp Operating frequency withstand voltage			
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions		kV	6
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature		kV	6
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions	min	kV	6
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature	min max	kV kV	6 4
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature		kV kV °C	-20
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature		kV kV °C	-20
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature	max	kV kV °C °C	-20 +60
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing	max min	kV kV °C °C	-20 +60 -30 +80
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules)	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front;
Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting	max min	kV kV °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 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	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



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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







ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay