

ENERGY AND AUTOMATION

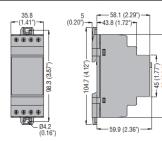
Rated voltage to control Ue (phase to phase)	Qty per pkg	Wt
[V] 50/60Hz	n°	[kg]

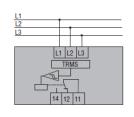
Three-phase system, without neutral.

Minimum AC voltage. Delayed trip.

Phase loss and incorrect phase sequence. Instantaneous trip.

PMV30 A240	208-240VAC	1	0.130
PMV30 A575	380-575VAC	1	0.130
PMV30 A600	600VAC	1	0.130





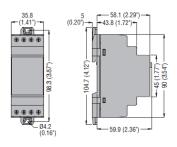
Rated voltage to control Ue (phase-to-phase)	Qty per pkg	Wt
[V] 50/60Hz	n°	[kg]

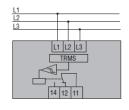
Three-phase system, without neutral.

Asymmetry. Delayed trip.

Phase loss and incorrect phase sequence. Instantaneous trip.

PMV40 A240	208-240VAC	1	0.130
PMV40 A575	380-575VAC	1	0.130
PMV40 A600	600VAC	1	0.130







General characteristics

- Voltage monitoring relay, self powered, for minimum voltage, phase loss and incorrect phase sequence
- Configurable rated voltage (Ue):
 - PMV30 A240: 208-220-230-240VAC
 - PMV30 A575: 380-400-415-440-460-480-525-575VAC
- Excellent tripping accuracy
- TRMS measurements (True Root Mean Square)
- Control of phase-to-phase voltages
- Phase loss detection if one of the voltages is <70% rated value
- Phase loss tripping time: 60ms
- 1 relay output with 1 changeover contact (SPDT)
- Modular DIN 43880 housing, 2 module
- IEC protection degree: IP40 on front (only when placed in IP40 enclosure or control board); IP20 at terminals.

ADJUSTMENTS

"V min" Minimum voltage tripping threshold

80-95% Ue

"Delay" Tripping time 0.1-20s "Reset delay" Resetting time 0.1-20s.

General characteristics

- Voltage monitoring relay, self powered, for asymmetry, phase loss and incorrect phase sequence
- Excellent tripping accuracy
- TRMS measurements (True Root Mean Square)
- Control of phase-to-phase voltages
- Phase loss detection if one of the voltages is <70% rated value
- Phase loss tripping time: 60ms
- 1 relay output with 1 changeover contact (SPDT)
- Modular DIN 43880 housing, 2 module
- IEC protection degree: IP40 on front (only when placed in IP40 enclosure or control board); IP20 at terminals.

ADJUSTMENTS

"Asymmetry" High voltage asymmetry tripping

threshold 5-15% Ue

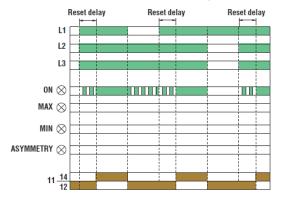
"Delay" Tripping time 0.1-20s Resetting time 0.1-20s "Reset delay"

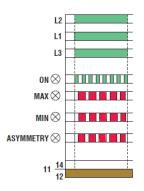
Certifications and compliance

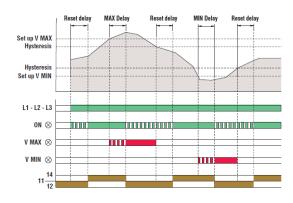
Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices. Compliant with standards: IEC/EN 60255-5, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 508,

CSA C22.2 n° 14.

Phase loss and incorrect phase sequence (PMV10-PMV20-PMV30-PMV40-PMV50-PMV60- MV70)











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TYPE Single phase	PMV55	_	_		_	
Three phase	-	PMV10	PMV20	PMV30	PMV40	
Three phase with/without neutral	_	_	_	_	_	
DESCRIPTION	•					
	Mimum and maximum AC voltage		e loss and hase sequence	Minimum AC voltage, phase loss and incorrect phase sequence	Asymmetry, phase loss and incorrect phase sequence	
CONTROL CIRCUIT						
Rated voltage	208-240VAC	208-480VAC	100-240VAC	208-240VAC		
to control (Ue)	380-440VAC		208-575VAC	380-575VAC		
			380-600VAC	600	VAC	
Maximum voltage set-point	105-115% Ue	_	_	_	_	
Minimum voltage set-point	80-95% Ue	_	_	80-95% Ue	_	
Asymmetry set-point	_	_	_	_	5-15%Ue	
Minimum and maximum	_	_	_	_	_	
frequency set-point	0.1.00					
Tripping time	0.1-20s		0ms	0.1-20s		
Resetting time	0.1-20s (0.5s at power up)		0.5s	0.1-20s (0.5s at power up)		
Resetting hysteresis	3%		5%		3%	
nstantaneous tripping for Ue	<70% Ue configured	Umin<	70% Umax	<70% Ue configured	<70% minimum Ue	
Repeat accuracy	< ±0-1%	<	±1%	< ±0.1%	< ±0.1%	
POWER SUPPLY						
Auxiliary voltage (Us)	Self powered					
Operating range	0.7-1.2Ue	0.8	5-1.1Ue	0.7-1	1.2Ue	
Frequency			50/60Hz ±5%			
Power consumption (maximum)	10VA (208-240VAC) ① 17VA (380-440VAC) ①	20VA ●	28VA ●	11VA (208-240VAC)		
Power dissipation (maximum)	1.5W	2.2W		2.5W		
RELAY OUTPUTS						
lumber of relays			1			
Relay state			Normally enegised De-energises at tripping			
Contact arrangement			1 changeover SPDT			
Rated operational voltage			250VAC			
Maximum switching voltage			400VAC			
Conventional free-air thermal current (Ith)			8A			
UL/CSA and IEC/EN 60947-5-1 designation			B300			
Electrical life (with rated load)	10⁵ cycles					
Mechanical life			30x10 ⁶ cycles			
Indications	1 green LED for power on and tripping 2 red LEDs for tripping		D for power on tripping	and tr	for power on ipping for tripping	
CONNECTIONS	1					
Ferminal tightening torque (maximum)	0.8Nm (7lbin; 7-9lbin per UL/CSA)					
Conductor section min-max		0.2-4.0m	m² (24-12AWG; 18-12 AWG p	oer UL/CSA)		
NSULTION (input-output)				,		
EC rated insulation voltage Ui	440VAC	480VAC		600VAC		
EC rated impulse withstand voltage Uimp			6kV			
EC power frequency withstand voltage			4kV			
AMBIENT CONDITIONS	<u> </u>					
Operating temperature	−20+60°C					
Storage temperature	−30+80°C					
HOUSING						
Material			Self-extinguishing polyamid	e		
			U			