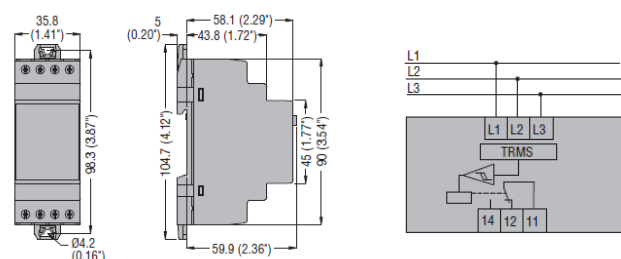


Order code	Rated voltage to control Ue (phase-to-phase)	Qty per pkg	Wt
	[V] 50/60Hz	n°	[kg]

Three-phase system, without neutral.
Minimum and maximum AC voltage. Delayed trip.
Phase loss and incorrect phase sequence. Instantaneous trip.

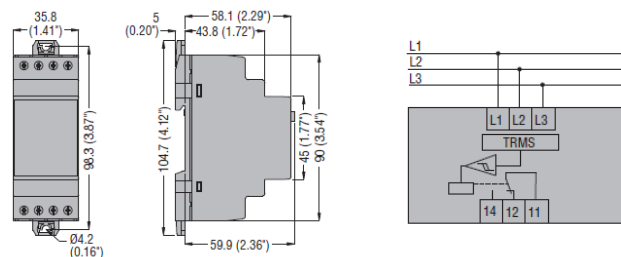
PMV50 A240	208-240VAC	1	0.130
PMV50 A575	380-575VAC	1	0.130
PMV50 A600	600VAC	1	0.130



Order code	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 and asymmetry. Delayed trip.
Phase loss and incorrect phase sequence. Instantaneous trip.

PMV60 A240	208-240VAC	1	0.130
PMV60 A575	380-575VAC	1	0.130
PMV60 A600	600VAC	1	0.130



General characteristics

- Voltage monitoring relay, self powered, for minimum and maximum voltage, phase loss and incorrect phase sequence
- Configurable rated voltage (Ue):
 - PMV50 A240: 208-220-230-240VAC
 - PMV50 A575: 380-400-415-440-460-480-525-575VAC
- High 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 on terminals.

ADJUSTMENTS

- “V max” Maximum voltage tripping threshold 105-115% Ue
- “V min” Minimum voltage tripping threshold 80-95% Ue
- “Delay” for each Tripping time 0.1-20s
- “Reset delay” Resetting time 0.1-20s.

General characteristics

- Voltage monitoring relay, self powered, for minimum voltage, phase loss and incorrect phase sequence
- Configurable rated voltage (Ue):
 - PMV60 A240: 208-220-230-240VAC
 - PMV60 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 on terminals.

ADJUSTMENTS

- “V min” Minimum voltage tripping threshold 80-95% Ue
- “Asymmetry” High voltage asymmetry tripping threshold 5-15% Ue
- “Delay” Tripping time 0.1-20s
- “Reset delay” Resetting time 0.1-20s

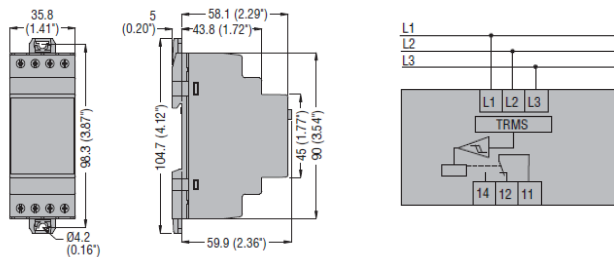
Certifications and compliance

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.

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

Three-phase system, without neutral.
 Minimum and maximum AC voltage and asymmetry.
 Delayed trip.
 Phase loss and incorrect phase sequence. Instantaneous trip.

PMV70 A240	208-240VAC	1	0.130
PMV70 A575	380-575VAC	1	0.130
PMV70 A600	600VAC	1	0.130



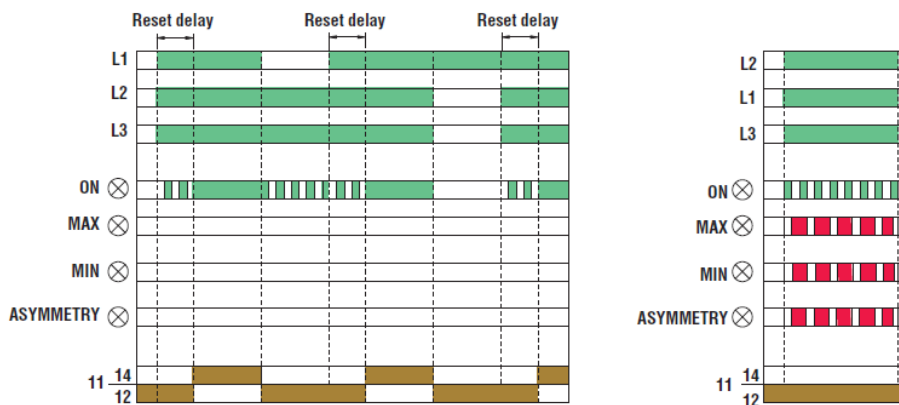
General characteristics

- Voltage monitoring relay, self powered, for minimum and maximum voltage, phase loss, incorrect phase sequence and asymmetry
- Configurable rated voltage (Ue):
 - PMV70 A240: 208-220-230-240VAC
 - PMV70 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.

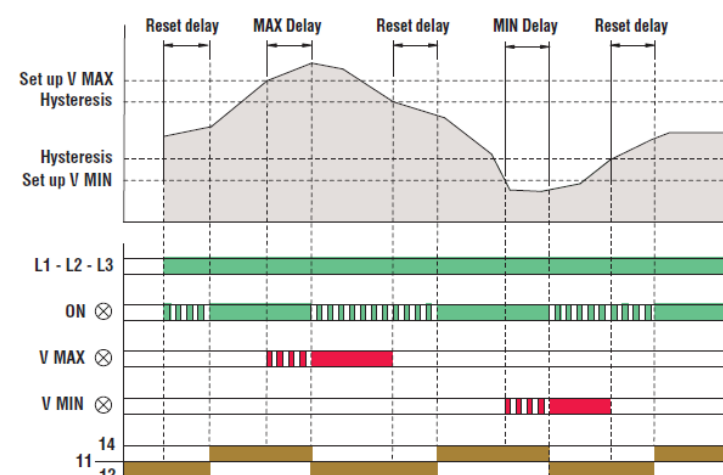
ADJUSTMENTS

- "V max" Maximum voltage tripping threshold 105-115% Ue
- "V min" Minimum voltage tripping threshold 80-95% Ue
- "Delay" for each Tripping delay 0.1-20s
- "Asymmetry" High voltage asymmetry tripping threshold 5-15% Ue.

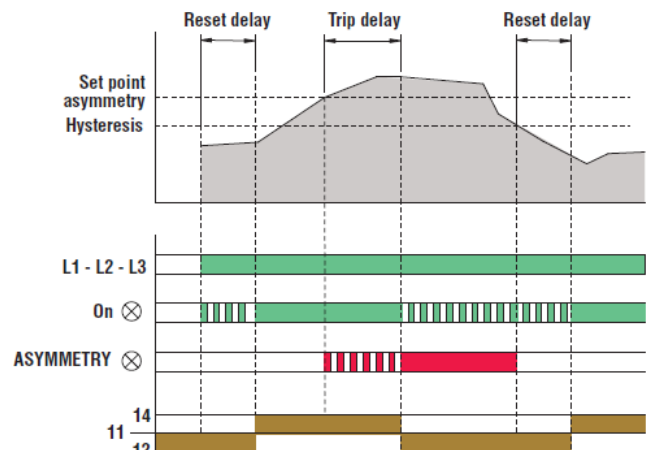
Phase loss and incorrect phase sequence (PMV10-PMV20-PMV30-PMV40-PMV50-PMV60- MV70)



Maximum and minimum voltage (PMV30 - PMV50 - PMV60 - PMV70)



Asymmetry (PMV40 - PMV60 - PMV70)



TYPE	Single phase	—	—	—	—	—	—
	Three phase	PMV50	PMV60	PMV70	—	—	—
	Three phase with/without neutral	—	—	—	PMV50 N	PMV70 N	PMV80 N
DESCRIPTION							
	Minimum and maximum AC voltage, phase loss and incorrect phase sequence	Minimum AC voltage, phase loss, incorrect phase sequence and asymmetry	Minimum and maximum AC voltage, phase loss, incorrect phase sequence and asymmetry	Minimum and maximum AC voltage, phase loss, neutral loss and incorrect phase sequence	Minimum and maximum AC voltage, phase loss, neutral loss, incorrect phase sequence and asymmetry	Minimum and maximum AC voltage and frequency, phase loss, neutral loss and incorrect phase sequence	
CONTROL CIRCUIT							
Rated voltage to control (Ue)	208-240VAC	208-240VAC	208-240VAC	208-240VAC	208-240VAC	208-240VAC	208-240VAC
	380-575VAC	380-575VAC	380-575VAC	380-440VAC	380-440VAC	380-440VAC	380-440VAC
	600VAC	600VAC	600VAC	480-600VAC	480-600VAC	480-600VAC	480-600VAC
Maximum voltage set-point	105-15% Ue	—	105-115% Ue	105-115% Ue	105-115% Ue	105-115% Ue	105-115% Ue
Minimum voltage set-point	80-95% Ue	80-95% Ue	80-95% Ue	80-95% Ue	80-95% Ue	80-95% Ue	80-95% Ue
Asymmetry set-point	—	5-15% Ue	5-15% Ue	—	5-15% Ue	—	—
Minimum and maximum frequency set-point	—	—	—	—	—	—	1-10% rated frequency
Tripping time	0.1-20s					0.1-20s	0.1-5s frequency
Resetting time	0.1-20s (0.5s at power up)	0.1-20s (0.5s at power up)	0.5s	0.1-20s	0.5s	0.5s	
Resetting hysteresis	3%	3%	3%	3%	3%	3%	0.5% frequency
Instantaneous tripping for Ue	<70% Ue configured						
Repeat accuracy	< ±0.1%						
POWER SUPPLY							
Auxiliary voltage (Us)	Self powered						
Operating range	0.7-1.2Ue						
Frequency	50/60Hz ±5%						
Power consumption (maximum)	11VA (208-240VAC)❶ 30VA (380-575VAC)❶ 19VA (600VAC)❶			27VA max			
Power dissipation (maximum)	2.5W			1.9W max			
RELAY OUTPUTS							
Number of relays	1			2			
Relay state	Normally energised De-energises at tripping						
Contact arrangement	1 changeover SPDT			2 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)	10 ⁵ cycles						
Mechanical life	30x10 ⁶ cycles						
Indications	1 green LED for power on and tripping 2 red LEDs for tripping		1 green LED for power on and tripping 3 red LEDs for tripping		1 green LED for power on and tripping 2 red LEDs for tripping		
CONNECTIONS							
Terminal tightening torque (maximum)	0.8Nm (7lbin; 7-9lbin per UL/CSA - PMV...N excluded)						
Conductor section min-max	0.2-4.0mm ² (24-12AWG; 18-12 AWG per UL/CSA - PMV...N excluded)						
INSULATION (input-output)							
IEC rated insulation voltage Ui	600VAC						
IEC rated impulse withstand voltage Uimp	6kV						
IEC power frequency withstand voltage	4kV						
AMBIENT CONDITIONS							
Operating temperature	-20...+60°C						
Storage temperature	-30...+80°C						
HOUSING							
Material	Self-extinguishing polyamide						

❶ Power consumption (maximum) at 50Hz.