

TYPE	Single phase	PMV55	—	—	—	—
	Three phase	—	PMV10	PMV20	PMV30	PMV40
	Three phase with/without neutral	—	—	—	—	—
DESCRIPTION						
		Minimum and maximum AC voltage	Phase loss and incorrect phase sequence		Minimum AC voltage, phase loss and incorrect phase sequence	Asymmetry, phase loss and incorrect phase sequence
CONTROL CIRCUIT						
Rated voltage to control (U _e)		208-240VAC	208-480VAC	100-240VAC	208-240VAC	
		380-440VAC		208-575VAC	380-575VAC	
				380-600VAC	600VAC	
Maximum voltage set-point		105-115% U _e	—	—	—	—
Minimum voltage set-point		80-95% U _e	—	—	80-95% U _e	—
Asymmetry set-point		—	—	—	—	5-15%U _e
Minimum and maximum frequency set-point		—	—	—	—	—
Tripping time		0.1-20s	60ms		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%	
Instantaneous tripping for U _e		<70% U _e configured	U _{min} <70% U _{max}		<70% U _e configured	<70% minimum U _e
Repeat accuracy		< ±0.1%	< ±1%		< ±0.1%	< ±0.1%
POWER SUPPLY						
Auxiliary voltage (U _s)		Self powered				
Operating range		0.7-1.2U _e	0.85-1.1U _e		0.7-1.2U _e	
Frequency		50/60Hz ±5%				
Power consumption (maximum)		10VA (208-240VAC)ⓘ 17VA (380-440VAC)ⓘ	20VAⓘ	28VAⓘ	11VA (208-240VAC)ⓘ 30VA (380-575VAC)ⓘ 19VA (600VAC)ⓘ	
Power dissipation (maximum)		1.5W	2.2W	2.5W		
RELAY OUTPUTS						
Number of relays		1				
Relay state		Normally energised De-energises at tripping				
Contact arrangement		1 changeover SPDT				
Rated operational voltage		250VAC				
Maximum switching voltage		400VAC				
Conventional free-air thermal current (I _{th})		8A				
UL/CSA and IEC/EN 60947-5-1 designation		B300				
Electrical life (with rated load)		10 ⁸ 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		1 green LED for power on and tripping 1 red LED for tripping	
CONNECTIONS						
Terminal tightening torque (maximum)		0.8Nm (7lbin; 7-9lbin per UL/CSA)				
Conductor section min-max		0.2-4.0mm ² (24-12AWG; 18-12 AWG per UL/CSA)				
INSULATION (input-output)						
IEC rated insulation voltage U _i		440VAC	480VAC	600VAC		
IEC rated impulse withstand voltage U _{imp}		6kV				
IEC power frequency withstand voltage		4kV				
AMBIENT CONDITIONS						
Operating temperature		-20...+60°C				
Storage temperature		-30...+80°C				
HOUSING						
Material		Self-extinguishing polyamide				

ⓘ Power consumption (maximum) at 50Hz.

	— PMV50	— PMV60	— PMV70	— — PMV50 N	— — PMV70 N	— — PMV80 N
Minimum and maximum AC voltage, phase loss and incorrect phase sequence	208-240VAC 380-575VAC 600VAC	208-240VAC 380-575VAC 600VAC	208-240VAC 380-575VAC 600VAC	208-240VAC 380-440VAC 480-600VAC	208-240VAC 380-440VAC 480-600VAC	208-240VAC 380-440VAC 480-600VAC
Minimum AC voltage, phase loss, incorrect phase sequence and asymmetry	105-15% Ue 80-95% Ue	— 80-95% Ue 5-15% Ue	105-115% Ue 80-95% Ue 5-15% Ue	105-115% Ue 80-95% Ue	105-115% Ue 80-95% Ue 5-15% Ue	105-115% Ue 80-95% Ue
Minimum and maximum AC voltage, phase loss, incorrect phase sequence and asymmetry	—	—	—	—	—	1-10% rated frequency
Minimum and maximum AC voltage, phase loss, neutral loss and incorrect phase sequence	0.1-20s (0.5s at power up) 3%	0.1-20s (0.5s at power up) 3%	0.5s 3%	0.1-20s 3%	0.5s 3%	0.1-20s 0.1-5s frequency 0.5s 3% 0.5% frequency
Minimum and maximum AC voltage, phase loss, neutral loss, incorrect phase sequence and asymmetry	<70% Ue configured < ±0.1%					
Self powered	0.7-1.2Ue 50/60Hz ±5%					
	11VA (208-240VAC)ⓘ 30VA (380-575VAC)ⓘ 19VA (600VAC)ⓘ 2.5W			27VA max 1.9W max		
	1			2		
	Normally energised De-energises at tripping					
	1 changeover SPDT			2 changeover SPDT		
	250VAC 400VAC 8A B300					
	10 ⁵ cycles 30x10 ⁶ cycles					
	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	
	0.8Nm (7lbin; 7-9lbin per UL/CSA - PMV...N excluded)					
	0.2-4.0mm ² (24-12AWG; 18-12 AWG per UL/CSA - PMV...N excluded)					
	600VAC 6kV 4kV					
	-20...+60°C -30...+80°C					
	Self-extinguishing polyamide					