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Product designation			Voltage monitoring relays
Product type designation			PMV70
General characteristics			
Description			Minimum and maximum AC voltage, phase loss, incorrect phase sequence and asymmetry
			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	30
Power dissipation Max		W	2.5
Control circut			
Rated voltage to control (Ue)			
	min	VAC	380
	Max	VAC	575
Voltage set-point (%Ue)			
	min	%	8095
	Max	%	105115
Asymmetry set-point (%Ue)		%	515
Tripping delay		S	0.120
Resetting time		S	0.5
Resetting hysteresis		%	3
Instantaneous tripping for Ue			Voltage <70% Ue
Type of reset			Automatic
Repeat accuracy		%	<±0.1
Tripping time for phase loss		ms	60
Relay outputs			
Number of relays		Nr.	1
Relay state			Normally energised De- energises at tripping
Contact arrangement			1 changeover SPDT
Rated operational voltage AC (IEC)		VAC	250
Maximum switching voltage		VAC	400
IEC Conventional free air thermal current Ith		Α	8
UL/CSA and IEC/EN 60947-5-1 designation			B300

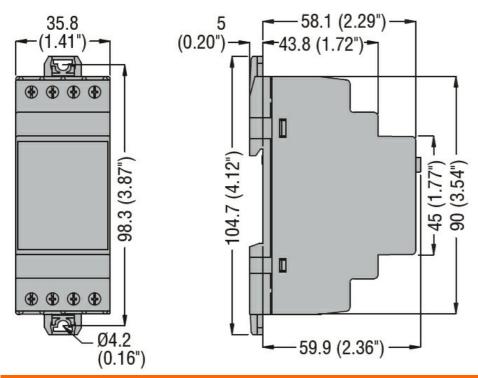
**ENERGY AND AUTOMATION** 

SPANNUNGSWÄCHTER 3-PHASIG (OHNE N, PHASE, ASYMMETRIE, DELAY, +/- U, 380-575VAC)

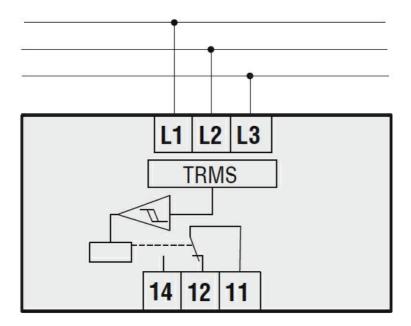
Electrical life (with rated load)  Mechanical life  Cycles 30000000  Functions  Modular version  Modular version  Maximum AC voltage  Maximum AC voltage  Yes  Maximum AC voltage  Yes  Phase loss  Incorrect phase sequence  Asymmetry  No  Indications  1 green LED for power on and tripping and 3 red LEDs for tripping  Connections  Terminals type  Tightening torque for terminals
FunctionsModular version2UMinimum AC voltageYesMaximum AC voltageYesPhase lossYesIncorrect phase sequenceYesAsymmetryNoIndications1 green LED for power on and tripping and 3 red LEDs for trippingConnectionsLEDs for trippingTerminals typeScrewTightening torque for terminals
Minimum AC voltage Yes  Maximum AC voltage Yes  Phase loss Yes Incorrect phase sequence Yes Asymmetry No Indications 1 green LED for power on and tripping and 3 red LEDs for tripping  Connections Terminals type Screw  Tightening torque for terminals
Maximum AC voltage Phase loss Incorrect phase sequence Asymmetry No Indications Indication Indication  Connections Terminals type Tightening torque for terminals  Yes Yes No Incorrect phase sequence Yes Asymmetry No Indication Sorew Test phase sequence Yes Yes Asymmetry No Indication Sorew Indication Sorew Indication Indi
Phase loss Incorrect phase sequence Asymmetry No Indications Indication Indication Indication  Connections Terminals type Tightening torque for terminals  Yes  Yes  Asymmetry No Ingreen LED for power on and tripping and 3 red LEDs for tripping Screw
Incorrect phase sequence  Asymmetry Indications  Indication  Indication  Connections  Terminals type Tightening torque for terminals  Yes  No  1 green LED for power on and tripping and 3 red LEDs for tripping  Screw
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Indication power on and tripping and 3 red LEDs for tripping  Connections  Terminals type Screw  Tightening torque for terminals
Terminals type  Tightening torque for terminals  tripping and 3 red LEDs for tripping  Screw
Connections Terminals type Tightening torque for terminals
Terminals type Screw Tightening torque for terminals
Tightening torque for terminals
NI 0.0
max Nm 0.8
max Ibin 7
Conductor cross section
AWG/Kcmil
min AWG 24
Max AWG 12
IEC
min mm <sup>2</sup> 0.2
Max mm <sup>2</sup> 4
Insulations
Rated insulation voltage Ui  V 600
Rated impulse withstand voltage Uimp kV 6
Operating frequency withstand voltage kV 4
Ambient conditions Temporature
Temperature Operation temperature
Operating temperature min °C -20
Storage temperature min °C -30
max °C +80
Housing
Execution (n° of modules) 2
Material Self-extinguishing polyamide
Mounting 35mm DIN rail (IEC/EN 60715)
IEC degree of protection IP40 on front; IP20 at terminals
Dimensions (W x H x D) mm $\frac{35.8 \times 104.7 \times 1000}{64.9}$
Dimensions (W x H x D)         mm         35.8 x 104.7 x 64.9           Weight         g         130           Dimensions         g         130

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SPANNUNGSWÄCHTER 3-PHASIG (OHNE N, PHASE, ASYMMETRIE, DELAY, +/- U, 380-575VAC)



## 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





SPANNUNGSWÄCHTER 3-PHASIG (OHNE N, PHASE, ASYMMETRIE, DELAY, +/- U, 380-575VAC)

ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay