



Product designation				Voltage monitoring relays
Product type designation				PMV30
<b>General characteristics</b>				
Description				Minimum AC voltage, phase loss and incorrect phase sequence relay
Type of system				Three-phase without neutral
<b>Power supply</b>				
Auxiliary supply voltage $U_s$				Self powered
Operating voltage range				$0.7 \dots 1.2 U_e$
Rated frequency	Hz			$50/60 \pm 5\%$
Power consumption Max	VA			30
Power dissipation Max	W			2.5
<b>Control circuit</b>				
Rated voltage to control ( $U_e$ )	min	VAC		380
	Max	VAC		575
Voltage set-point ( $\%U_e$ )	min	%	80...95	
Tripping delay		s	0.1...20	
Resetting time		s	0.1...20 (0.5 at power up)	
Resetting hysteresis		%	3	
Instantaneous tripping for $U_e$				Voltage $< 70\% U_e$
Type of reset				Automatic
Repeat accuracy		%	$\pm 0.1$	
Tripping time for phase loss		ms	60	
<b>Relay outputs</b>				
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 $I_{th}$	A			8
UL/CSA and IEC/EN 60947-5-1 designation				B300
Electrical life (with rated load)	cycles			100000
Mechanical life	cycles			3000000
<b>Indications</b>				

Indication	1 green LED for power on and tripping and 1 red LED for tripping
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**Connections**

Terminals type	Screw
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Tightening torque for terminals	max	Nm	0.8
	max	lbin	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
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Rated impulse withstand voltage Uimp	kV	6
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Operating frequency withstand voltage	kV	4
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**Ambient conditions**

Temperature	Operating temperature	min	°C	-20
		max	°C	+60

Storage temperature	min	°C	-30
	max	°C	+80

**Housing**

Execution (n° of modules)	2
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Material	Self-extinguishing polyamide
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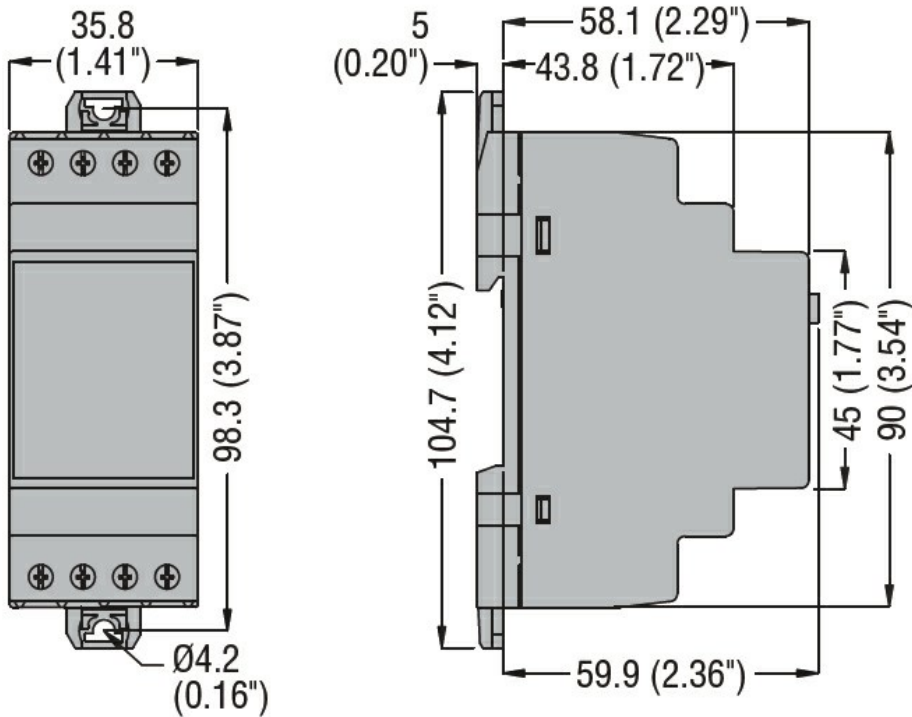
Mounting	35mm DIN rail (IEC/EN 60715)
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IEC degree of protection	IP40 on front; IP20 at terminals
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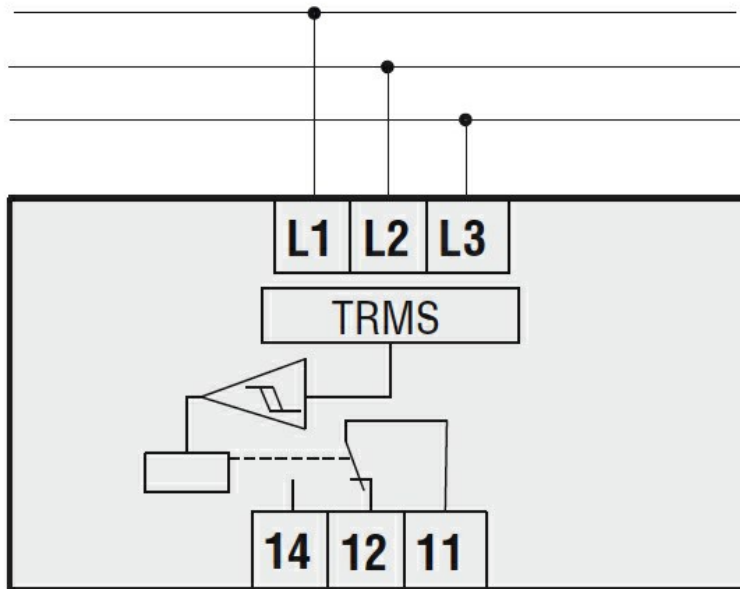
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
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Weight	g	130
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**Dimensions**



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