

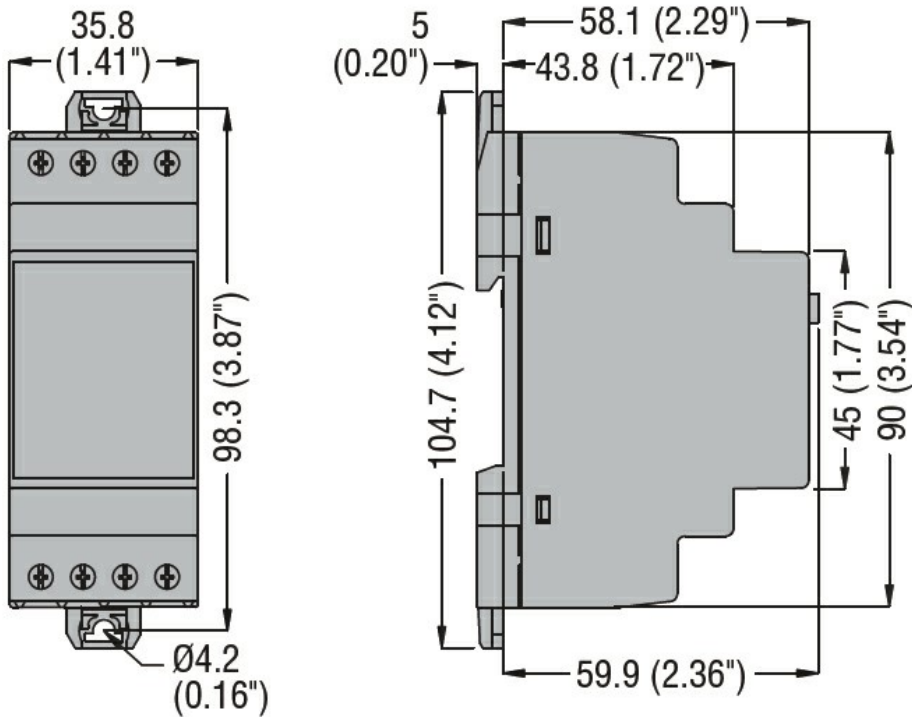


### General characteristics

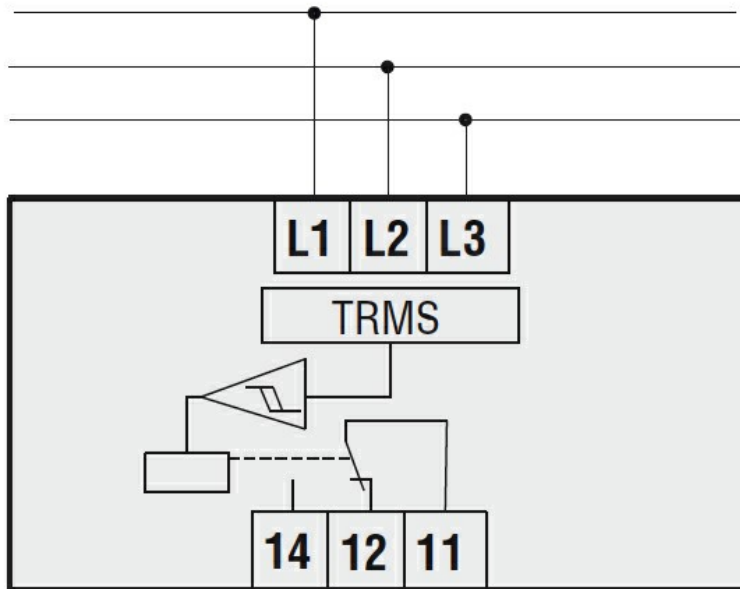
Description	Minimum and maximum AC voltage, phase loss, incorrect phase sequence and asymmetry relay		
Type of system	Three-phase without neutral		
<b>Power supply</b>			
Auxiliary supply voltage $U_s$	Self powered		
Operating voltage range	0.7...1.2 $U_e$		
Rated frequency	Hz	50/60 $\pm 5\%$	
Power consumption Max	VA	19	
Power dissipation Max	W	2.5	
<b>Control circuit</b>			
Rated voltage to control ( $U_e$ )	min	VAC	480
	Max	VAC	600
Voltage set-point ( $\%U_e$ )	min	%	80...95
	Max	%	105...115
Asymmetry set-point ( $\%U_e$ )		%	5...15
Tripping delay		s	0.1...20
Resetting time		s	0.5
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 $I_{th} \leq 40^\circ C$		A	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)		cycles	100000
Mechanical life		cycles	3000000

### Functions

Modular version				2U
Minimum AC voltage				Yes
Maximum AC voltage				Yes
Phase loss				Yes
Incorrect phase sequence				Yes
Asymmetry				No
<b>Indications</b>				
Indication				1 green LED for power on and tripping and 3 red LEDs for tripping
<b>Connections</b>				
Terminals type				Screw
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
<b>Insulations</b>				
Rated insulation voltage Ui			V	600
Rated impulse withstand voltage Uimp			kV	6
Operating frequency withstand voltage			kV	4
<b>Ambient conditions</b>				
Temperature				
	Operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	min	°C	-30
		max	°C	+80
<b>Housing</b>				
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	35.8 x 104.7 x 64.9
Weight			g	130
<b>Dimensions</b>				



### Wiring diagrams



### Certifications and compliance

#### Compliance

CSA C22.2 n° 14

IEC/EN 60255-5

IEC/EN 60335-2-89

IEC/EN 61000-6-2

IEC/EN 61000-6-3

UL 508

#### Certificates

CSA C22.2 n. 60335-2-40:22 LZGH A2L

---

CSA C22.2 No. 60335-2-89:21 LZGH A2L

---

cULus

---

EAC

---

UL 60335-2-40 LZGH A2L

---

UL 60335-2-89 LZGH A2L

**ETIM classification**

ETIM 8.0

EC001438 -  
Voltage  
monitoring relay