



### General characteristics

Description	Minimum and maximum AC voltage, phase loss and incorrect phase sequence relay
Type of system	Three-phase without neutral

### Power supply

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 11
Power dissipation Max	W 2.5

### Control circuit

Rated voltage to control ( $U_e$ )	min	VAC	208
	Max	VAC	240
Voltage set-point ( $\%U_e$ )	min	%	80...95
	Max	%	105...115
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

### 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 $I_{th} \leq 40^\circ C$	A	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycles	100000
Mechanical life	cycles	30000000

### Functions

Modular version	2U
-----------------	----

Minimum AC voltage	Yes
Maximum AC voltage	Yes
Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	No

### Indications

Indication	1 green LED for power on and tripping and 2 red LEDs for tripping
------------	---

### Connections

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	

### Insulations

Rated insulation voltage Ui	V	600
Rated impulse withstand voltage Uimp	kV	6
Operating frequency withstand voltage	kV	4

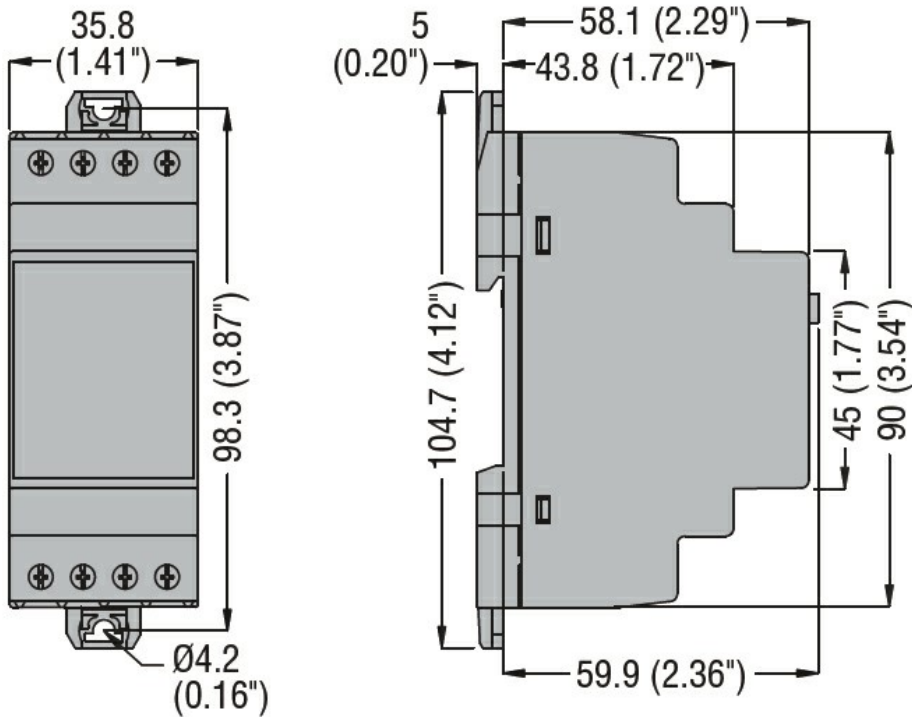
### Ambient conditions

Temperature				
Operating temperature	min	°C	-20	
	max	°C	+60	
Storage temperature	min	°C	-30	
	max	°C	+80	

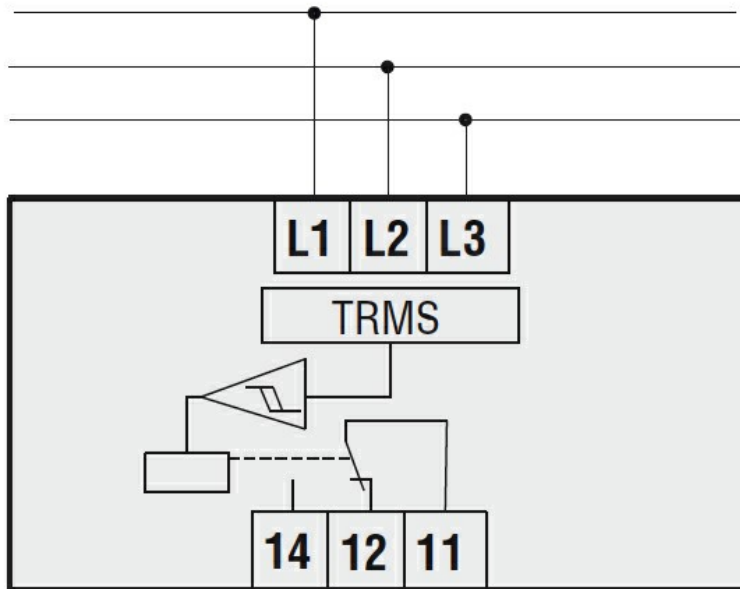
### Housing

Execution (n° of modules)	2
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

### Dimensions



### 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