



General characteristics

Description	Asymmetry, 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 19
Power dissipation Max	W 2.5

Control circuit

Rated voltage to control (U_e)	min	VAC	600
Asymmetry set-point ($\%U_e$)		%	5...15
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		%	< ± 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 $I_{th} \leq 40^\circ\text{C}$	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	No
Maximum AC voltage	No
Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	Yes

Indications

Indication	1 green LED for power on and tripping and 1 red LED 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 ²	0.2
	Max	mm ²	4

Insulations

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

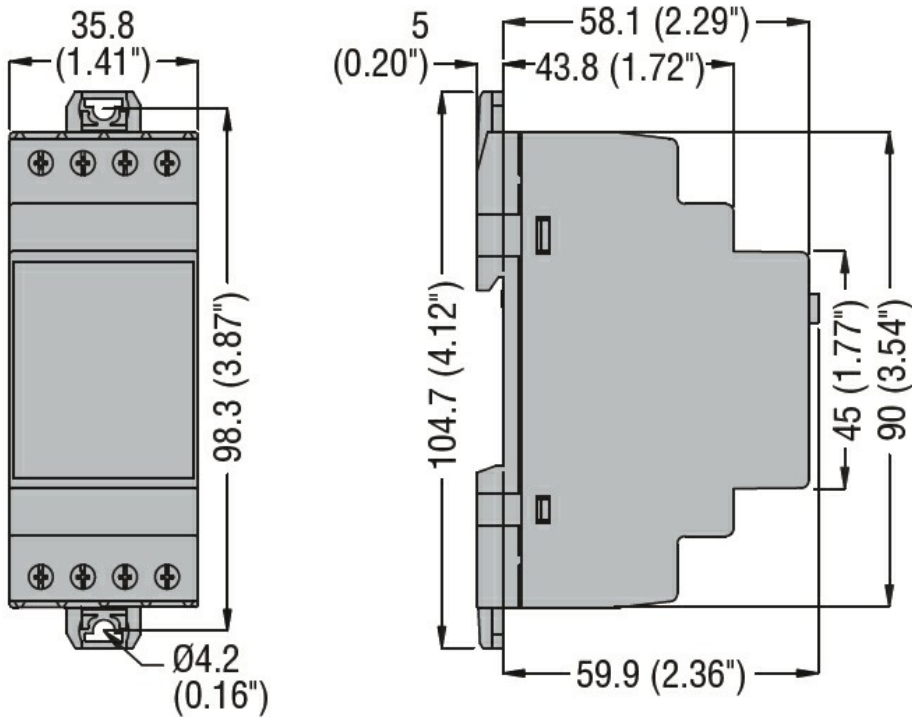
Ambient conditions

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

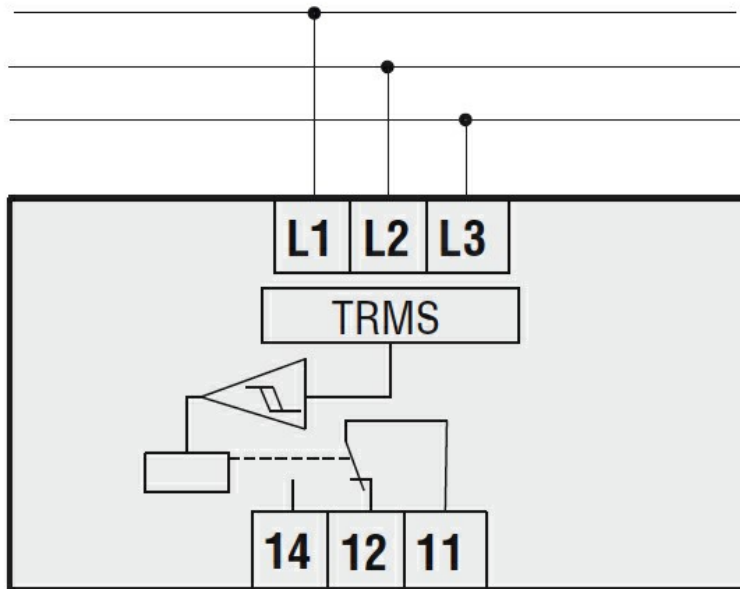
Housing

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