



General characteristics

Description	Minimum 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 30
Power dissipation Max	W 2.5

Control circuit

Rated voltage to control (U_e)	min	VAC	380
	Max	VAC	575
Voltage set-point ($\%U_e$)	min	%	80...95
		s	0.1...20
Tripping delay		s	0.1...20 (0.5 at power up)
Resetting time		%	3
Resetting hysteresis			Voltage $< 70\% U_e$
Instantaneous tripping for U_e			Automatic
Type of reset		%	± 0.1
Repeat accuracy		ms	60
Tripping time for phase loss			

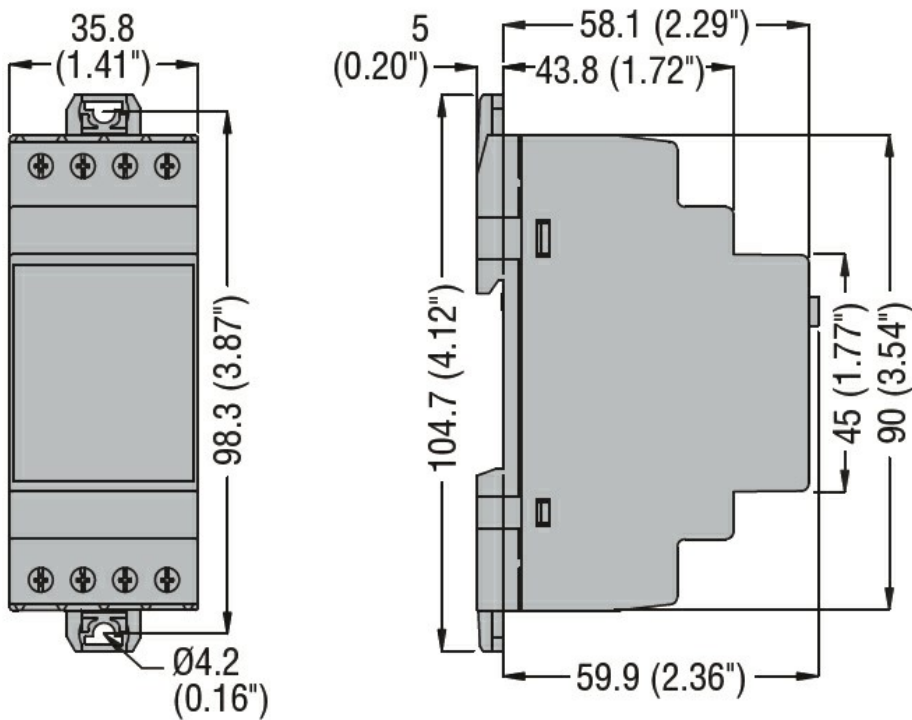
Relay outputs

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	3000000

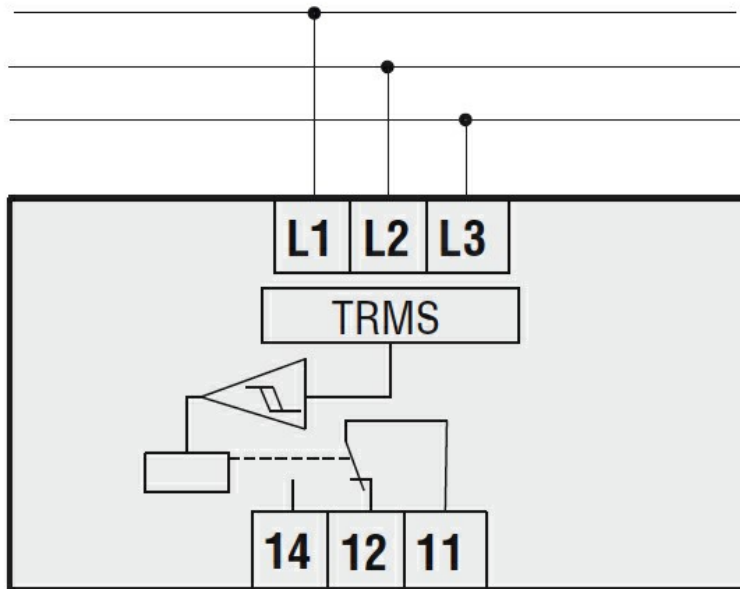
Functions

Modular version	2U
Minimum AC voltage	Yes
Maximum AC voltage	No

Phase loss				Yes
Incorrect phase sequence				Yes
Asymmetry				No
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