



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 19
Power dissipation Max	W 2.5

Control circuit

Rated voltage to control (U_e)	min	VAC	600
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		%	$\leq \pm 0.1$
Tripping time for phase loss		ms	60

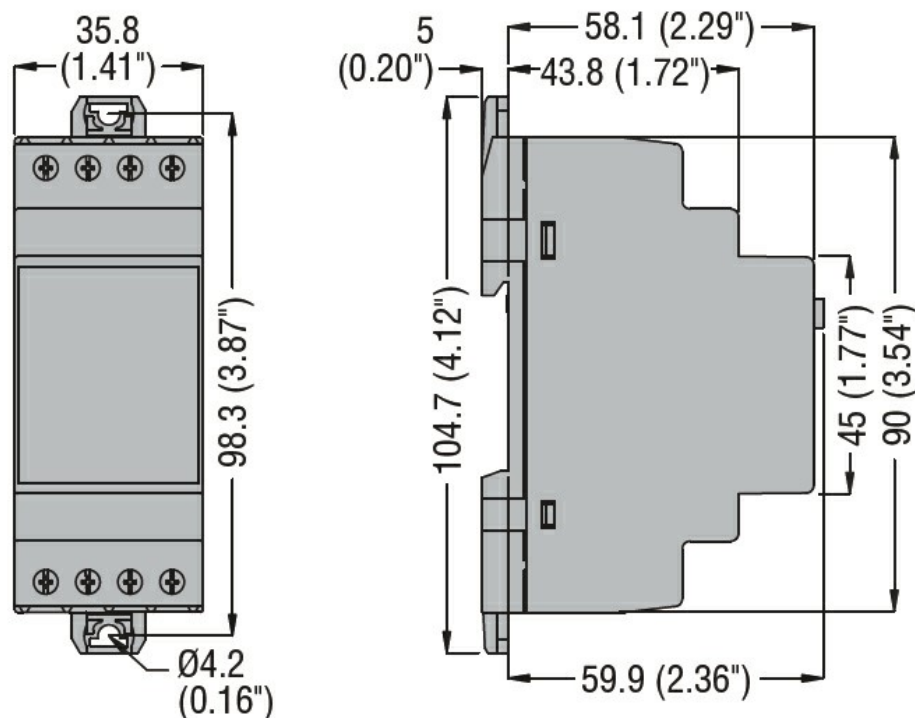
Relay outputs

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

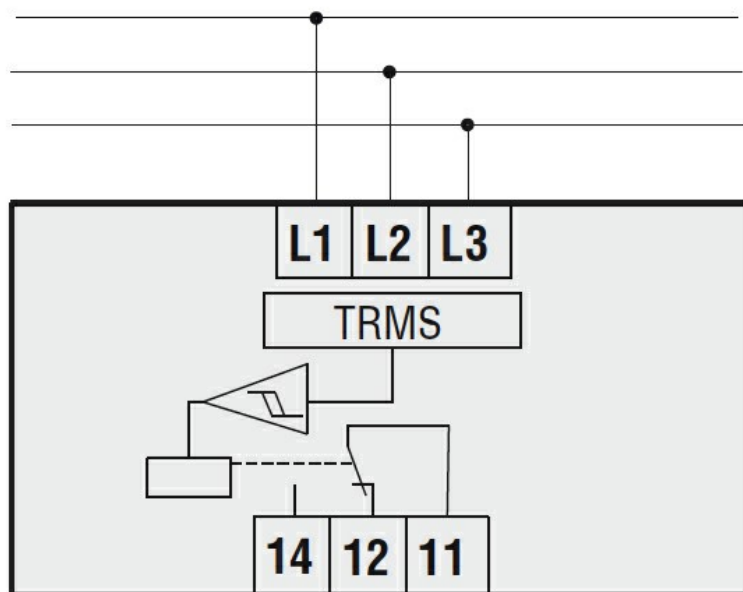
Functions

Modular version	2U
Minimum AC voltage	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
				7
Conductor cross section				
AWG/Kcmil				
				min
				AWG
				24
				Max
				AWG
				12
IEC				
				min
				mm²
				0.2
				Max
				mm²
				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