



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 30
Power dissipation Max	W 2.5

Control circuit

Rated voltage to control (U_e)	min VAC 380 Max VAC 575
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	% $< \pm 0.1$
Tripping time for phase loss	ms 60

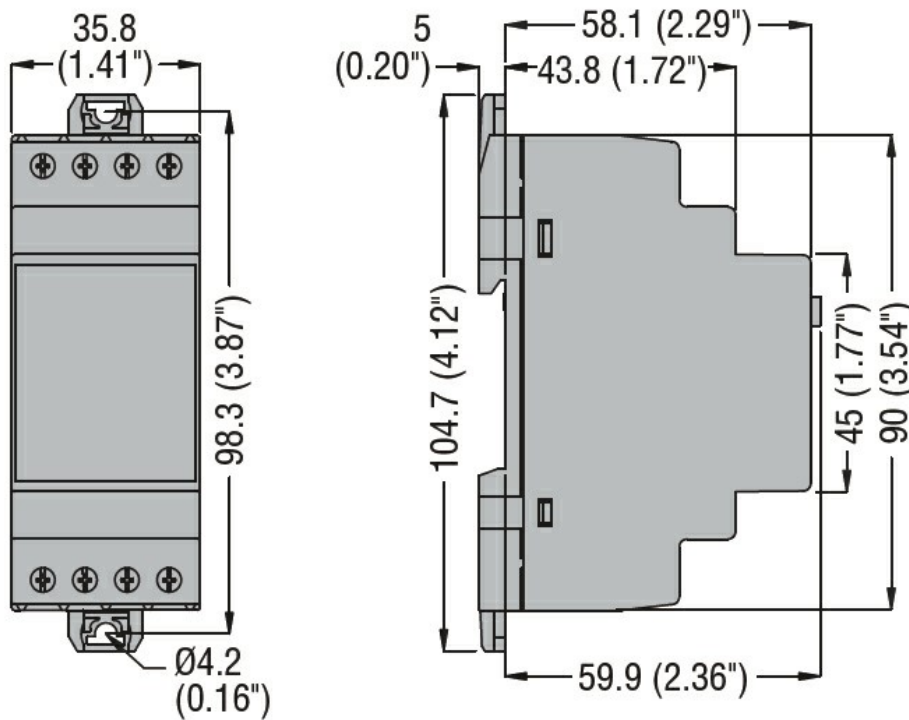
Relay outputs

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

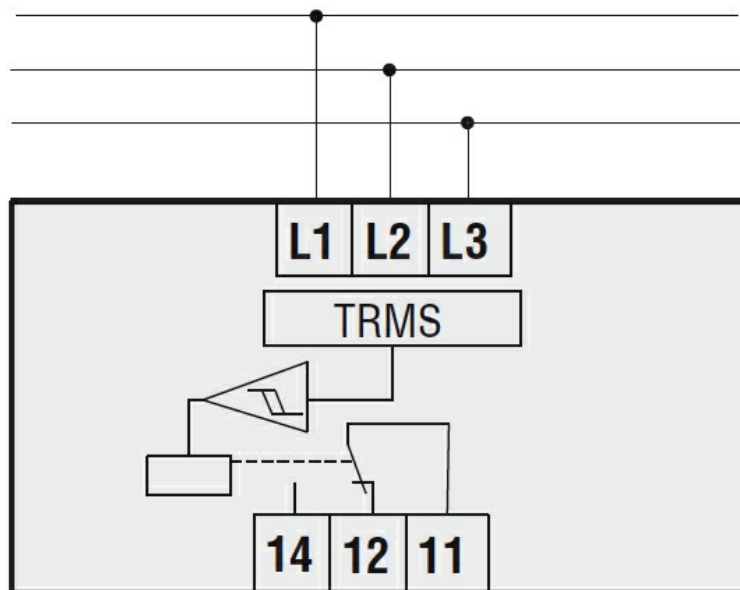
Functions

Modular version	2U
Minimum AC voltage	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	Ibin	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

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, ASYMMETRY. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

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