



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 11
Power dissipation Max	W 2.5

Control circuit

Rated voltage to control (U_e)	min Max	VAC VAC	208 240
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

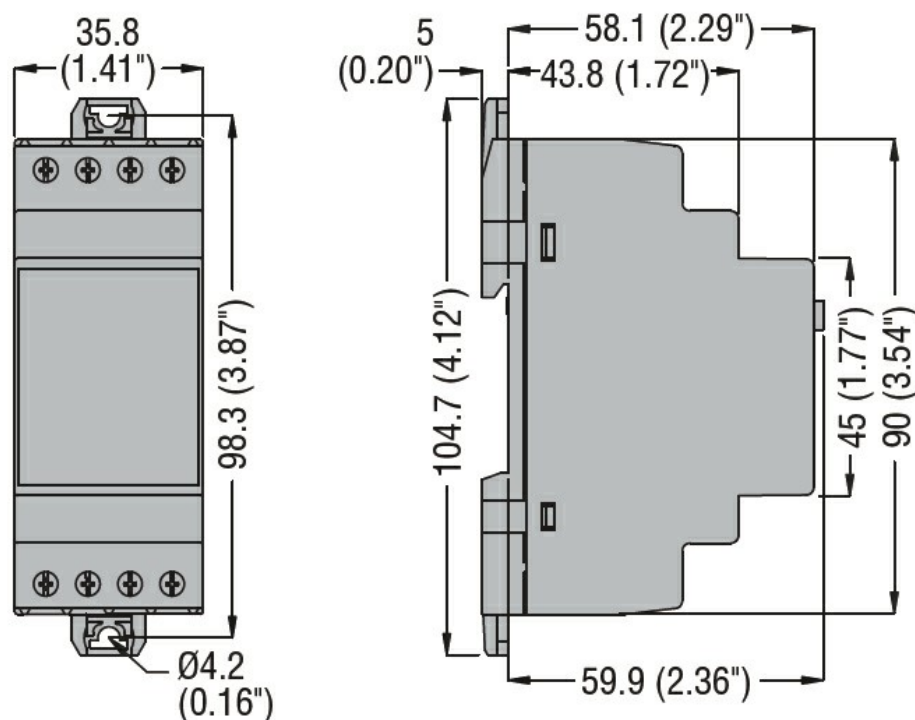
Relay outputs

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

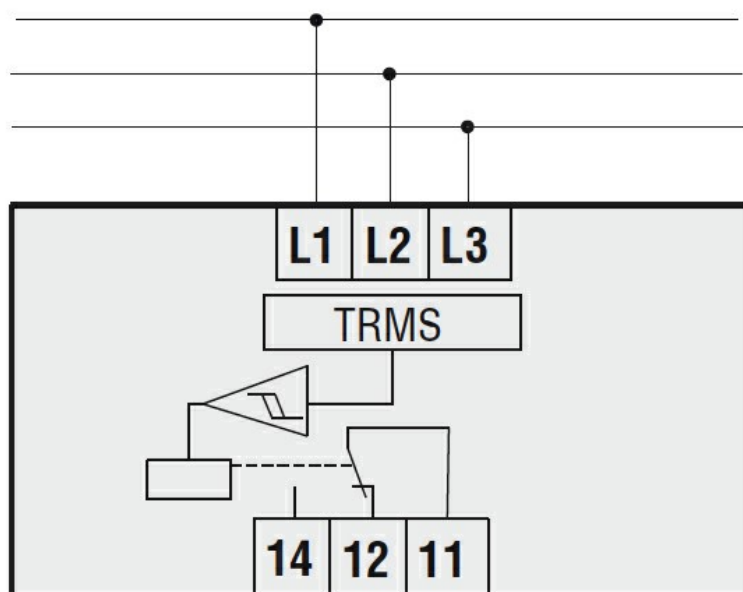
Functions

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 RELAY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL,
ASYMMETRY. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 208...240VAC 50/60HZ

CSA C22.2 No. 60335-2-89:21 LZGH A2L

cULus

EAC

UL 60335-2-40 LZGH A2L

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ETIM classification

ETIM 8.0

EC001438 -
Voltage
monitoring relay