



General characteristics

Description	Minimum and maximum AC voltage, phase loss, incorrect phase sequence and asymmetry 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	480
	Max	VAC	600
Voltage set-point ($\%U_e$)	min	%	80...95
	Max	%	105...115
Asymmetry set-point ($\%U_e$)		%	5...15
Tripping delay		s	0.1...20
Resetting time		s	0.5
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	Yes
Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	No

Indications

Indication	1 green LED for power on and tripping and 3 red LEDs for tripping
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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

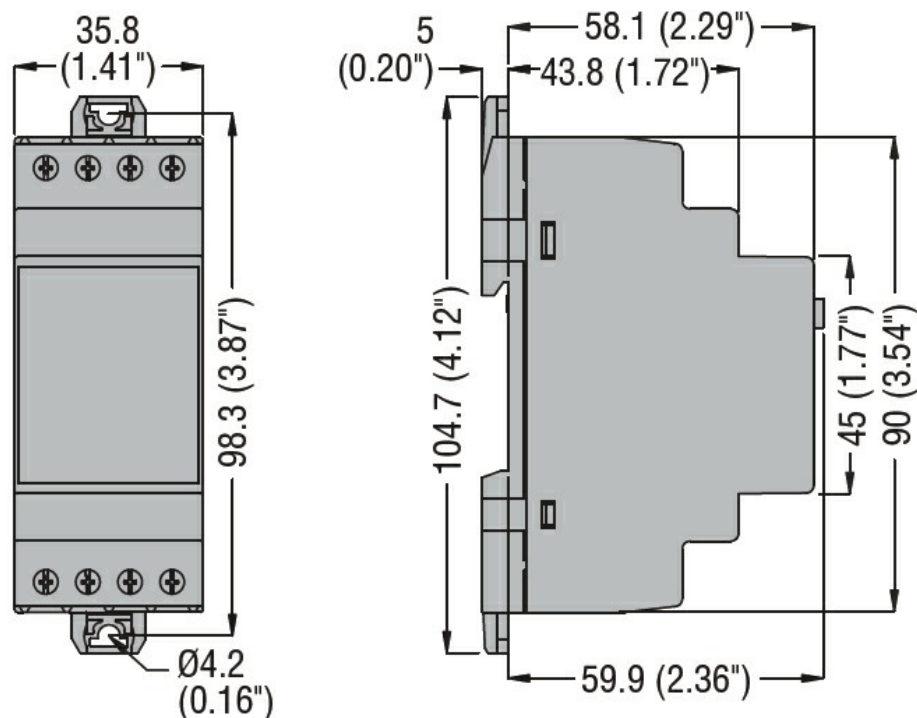
Storage temperature

min	°C	-30
max	°C	+80

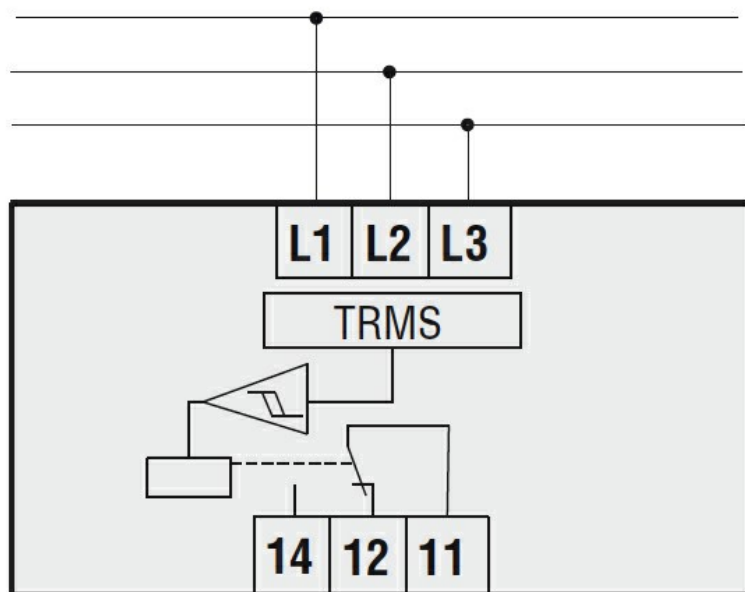
Housing

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

VOLTAGE MONITORING RELAY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE AND ASYMMETRY. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 600VAC 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