



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	19	
Power dissipation Max	W	2.5	
Control circuit			
Rated voltage to control (U_e)	min	VAC	600
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		%	$\leq \pm 0.1$
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	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
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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

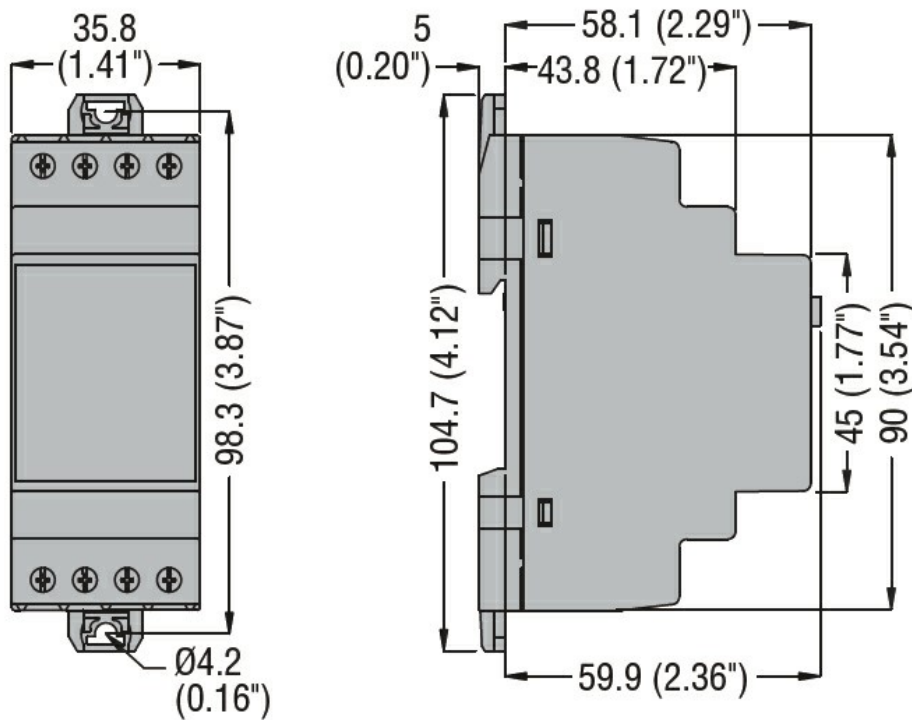
Ambient conditions

Temperature	
Operating temperature	min °C -20
	max °C +60
Storage temperature	min °C -30
	max °C +80

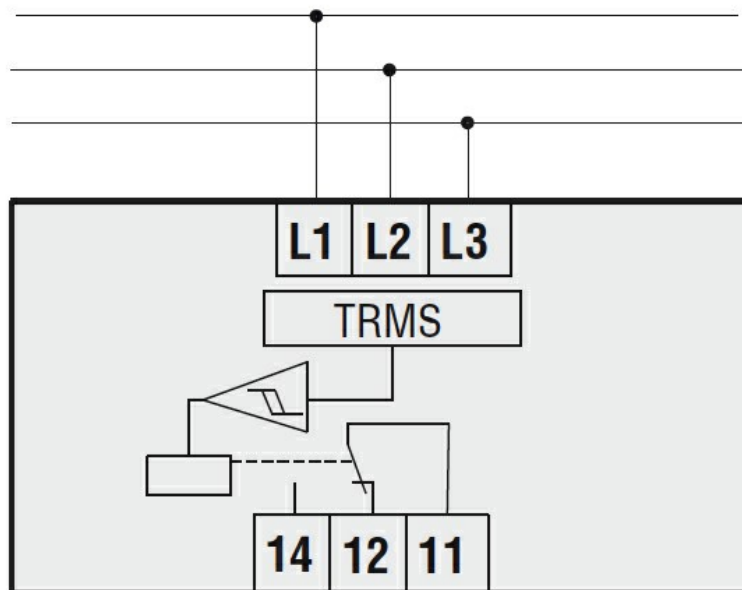
Housing

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

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