



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	30
Power dissipation Max	W	2.5

Control circuit

Rated voltage to control (U_e)	min	VAC	380
	Max	VAC	575
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 $I_{th} \leq 40^\circ C$	A	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycles	100000
Mechanical life	cycles	3000000

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
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Connections

Terminals type	Screw
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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

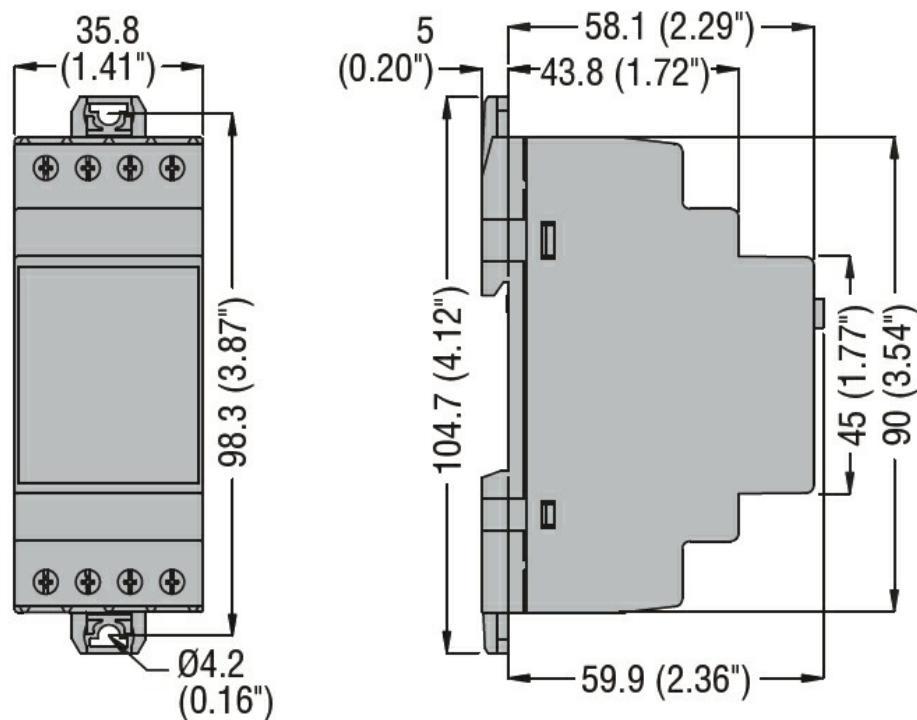
Storage temperature

min	°C	-30
max	°C	+80

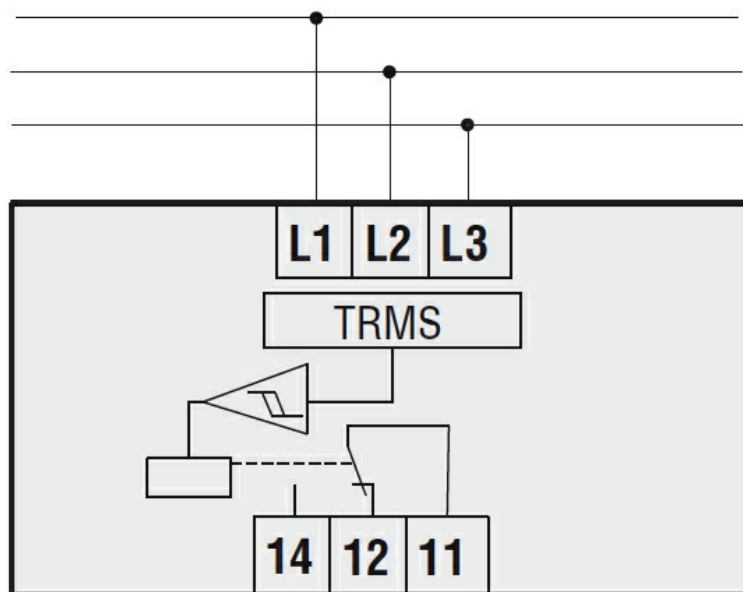
Housing

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 AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

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

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EAC

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC001438 -
Voltage
monitoring relay