



### General characteristics

Description	Minimum and maximum AC voltage, phase loss, neutral loss and incorrect phase sequence relay		
Type of system	Three-phase with/without neutral		
<b>Power supply</b>			
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	27	
Power dissipation Max	W	1.9	
<b>Control circuit</b>			
Rated voltage to control ( $U_e$ )	min	VAC	380
	Max	VAC	440
Voltage set-point ( $\%U_e$ )	min	%	80...95
	Max	%	105...115
Tripping delay	s	0.1...20	
Resetting time	s	0.1...20	
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	
<b>Relay outputs</b>			
Number of relays	Nr.	2	
Relay state	Normally energised De-energises at tripping		
Contact arrangement	2 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	3U
Minimum AC voltage	Yes
Maximum AC voltage	Yes
Natural loss	Yes
Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	No
Minimum frequency	No
Maximum frequency	No
Programmable via NFC technology and APP	No

### Indications

Indication	1 green LED for power on and tripping and 2 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 <sup>2</sup>	0.2
		Max	mm <sup>2</sup>	4

### Insulations

Rated insulation voltage Ui	V	600
Rated impulse withstand voltage Uimp	kV	6
Operating frequency withstand voltage	kV	4

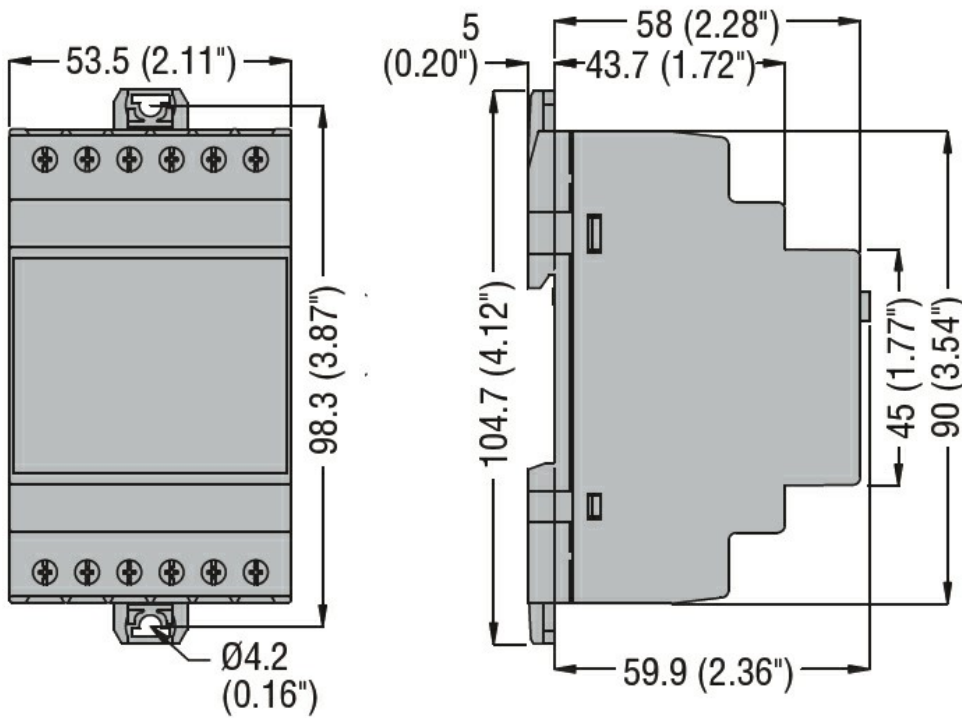
### Ambient conditions

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

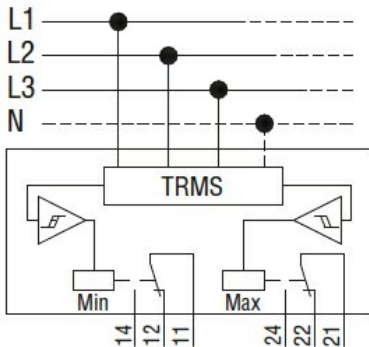
### Housing

Execution (n° of modules)	3
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 53.5 x 104.7 x 64.9
Weight	g 200

### Dimensions



### Wiring diagrams



### Certifications and compliance

#### Compliance

IEC/EN 60255-5  
IEC/EN 60335-2-89  
IEC/EN 61000-6-2  
IEC/EN 61000-6-3

#### Certificates

CSA C22.2 n. 60335-2-40:22 LZGH A2L  
CSA C22.2 No. 60335-2-89:21 LZGH A2L  
EAC  
UL 60335-2-40 LZGH A2L  
UL 60335-2-89 LZGH A2L

### ETIM classification

ETIM 8.0

EC001438 -  
Voltage  
monitoring relay