



## General characteristics

Description	Minimum and maximum AC voltage, minimum and maximum frequency, 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
Frequency set-point ( $\%$ rated frequency)	min	%	1
	Max	%	10
Tripping delay	s	0.1...20s (0.1...5s freq.)	
Resetting time	s	0.5	
Resetting hysteresis	%	3 (0.5 freq)	
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		Yes
Maximum frequency		Yes
Programmable via NFC technology and APP		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	Ibin	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 $U_i$	V	600
Rated impulse withstand voltage $U_{imp}$	kV	6
Operating frequency withstand voltage	kV	4

### Ambient conditions

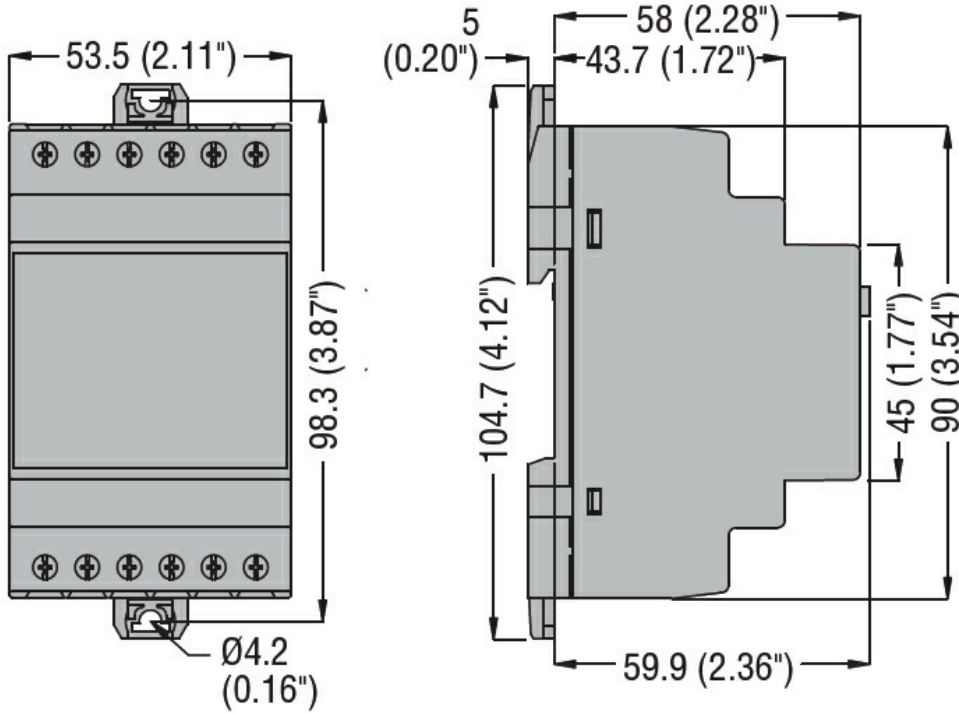
Temperature				
	Operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	min	°C	-30
		max	°C	+80

### Housing

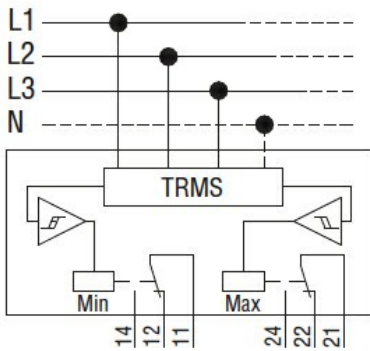
Execution (n° of modules)		3
Material		Self-extinguishing polyamide
Mounting		35mm DIN rail (IEC/EN 60715)
IEC degree of protection		IP40 on front; IP20 at terminals

Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
Weight	g	200

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

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

**Certificates**

EAC

**ETIM classification**

ETIM 8.0

EC001438 -  
Voltage  
monitoring relay