



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		
Power supply			
Auxiliary supply voltage U_s	Self powered		
Operating voltage range	0.7...1.2 U_e		
Rated frequency	Hz	50/60 ±5%	
Power consumption Max	VA	27	
Power dissipation Max	W	1.9	
Control circuit			
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	%	<±0.1	
Tripping time for phase loss	ms	60	
Relay outputs			
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 $I_{th} \leq 40^{\circ}\text{C}$	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	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	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 U_i	V	600
Rated impulse withstand voltage U_{imp}	kV	6
Operating frequency withstand voltage	kV	4

Ambient conditions

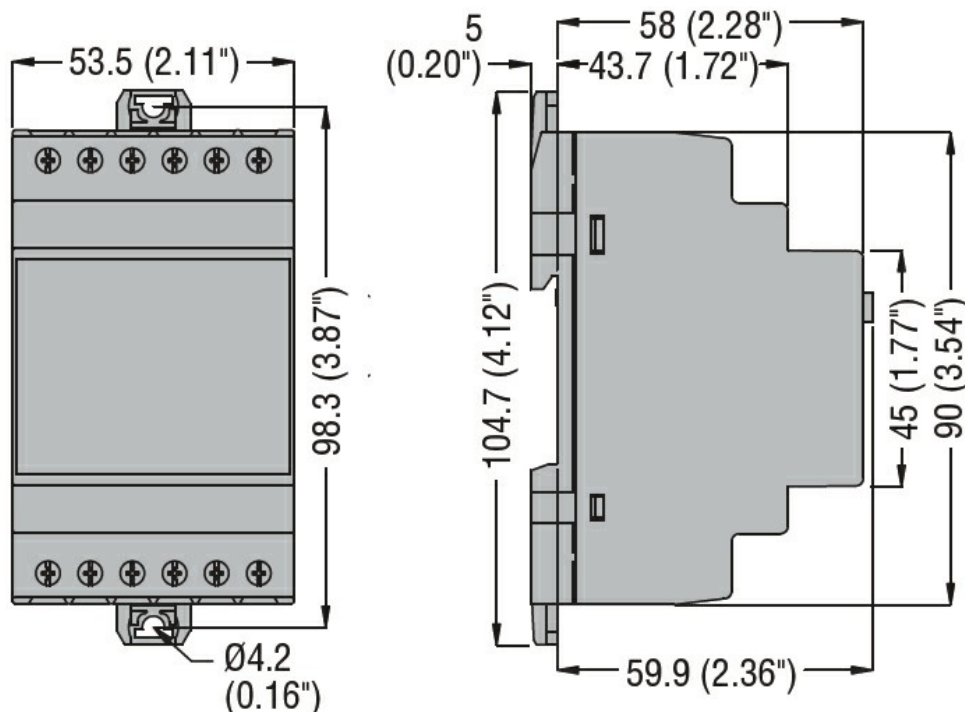
Temperature			
Operating temperature	min max	°C °C	-20 +60
Storage temperature	min max	°C °C	-30 +80

Housing

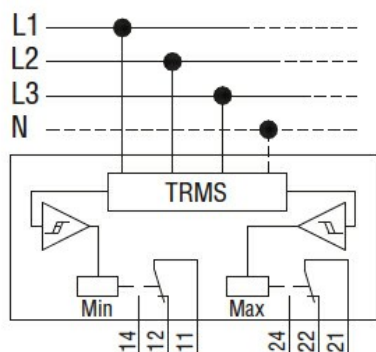
Execution (n° of modules)	3
Material	Self-extinguishing polyamide
Mounting	35mm DIN rail (IEC/EN 60715)
IEC degree of protection	IP40 on front; IP20 at terminals

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