



General characteristics

Description	Minimum and maximum AC voltage, phase loss, neutral loss, incorrect phase sequence and asymmetry 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 $\pm 5\%$	
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
Asymmetry set-point ($\%U_e$)		%	5...15
Tripping delay		s	0.1...20
Resetting time		s	0.5
Resetting hysteresis		%	3
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 $I_{th} \leq 40^\circ C$		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	3U
Minimum AC voltage	Yes
Maximum AC voltage	Yes
Natural loss	Yes
Phase loss	Yes
Incorrect phase sequence	Yes
Asymmetry	Yes
Minimum frequency	No
Maximum frequency	No
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 Ui	V 600
Rated impulse withstand voltage Uimp	kV 6
Operating frequency withstand voltage	kV 4

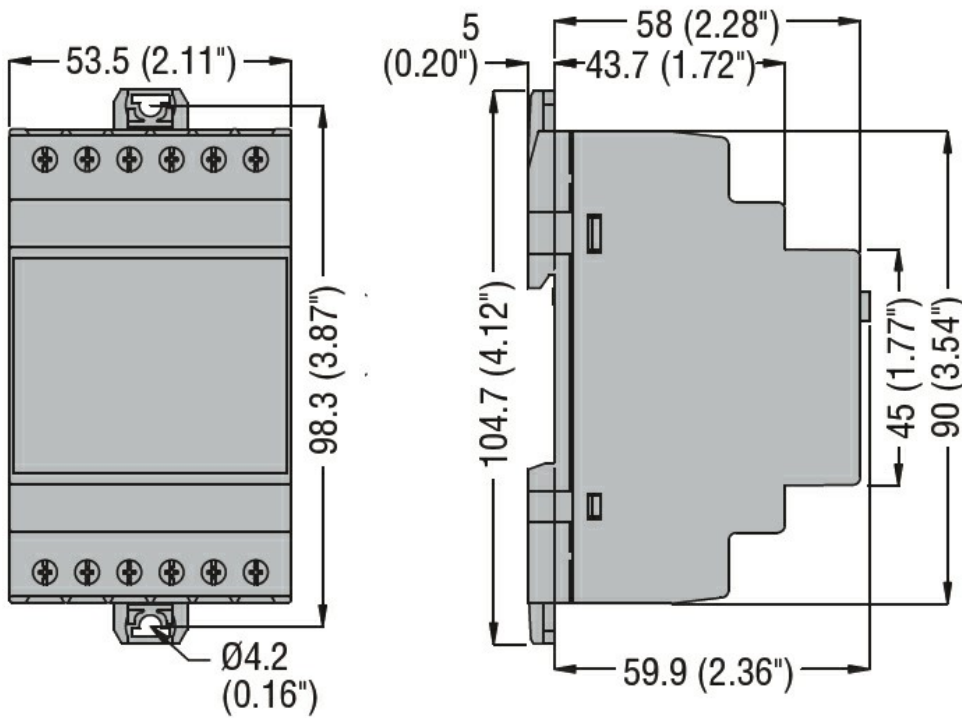
Ambient conditions

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

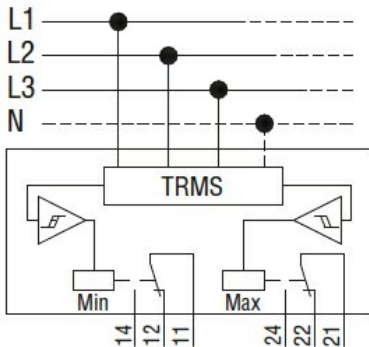
Housing

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 35.8 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