



General characteristics

Description				Minimum and maximum frequency control
Type of system				Single-phase
Power supply				
Auxiliary supply voltage U_s				Self powered
Operating voltage range				0.85...1.1 U_e
Rated frequency	Hz			50 or 60 Hz selectable
Power consumption Max	VA			10
Power dissipation Max	W			1.5
Control circuit				
Rated voltage to control (U_e)	min	VAC	220	
	Max	VAC	240	
Frequency set-point (% rated frequency)	min	%	90...99	
	Max	%	101...110	
Tripping delay	s			0.1...20
Resetting time	s			0.1...20
Resetting hysteresis	%			0.5
Type of reset				Automatic
Repeat accuracy	%			< \pm 0.1
Voltage inputs				
Frequency range	Hz			40...70
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 $I_{th} \leq 40^\circ\text{C}$	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				2U
Minimum AC voltage				Yes
Maximum AC voltage				Yes
Minimum frequency				No
Maximum frequency				No

Indications

Indication	1 green LED for power on and tripping and 2 red LEDs for min/max 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	575
Rated impulse withstand voltage Uimp	kV	6
Operating frequency withstand voltage	kV	4

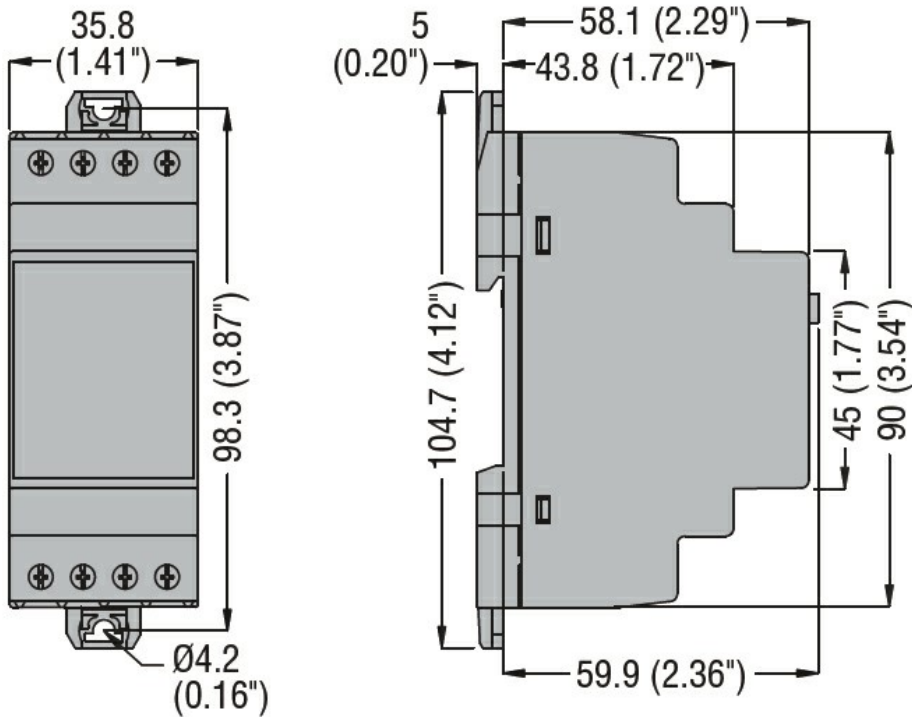
Ambient conditions

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

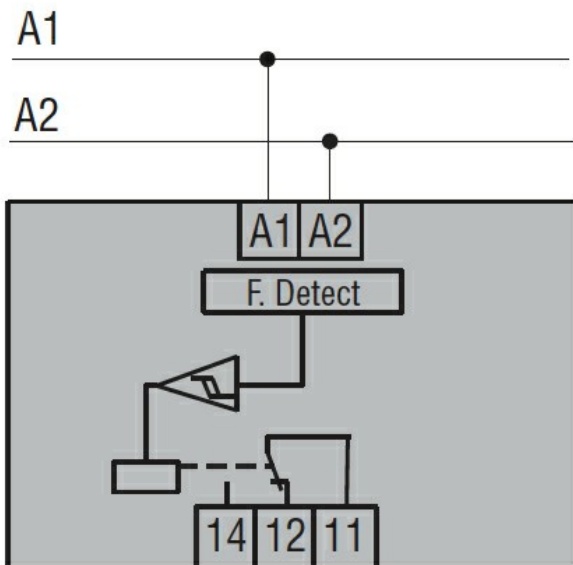
Housing

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	125	

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

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

cULus

EAC

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC001442 -
Frequency
monitoring relay