



### General characteristics

Description				Minimum and maximum frequency control
Type of system				Single-phase
<b>Power supply</b>				
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			17
Power dissipation Max	W			1.5
<b>Control circuit</b>				
Rated voltage to control ( $U_e$ )	min	VAC	380	
	Max	VAC	415	
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
<b>Voltage inputs</b>				
Frequency range	Hz			40...70
<b>Relay outputs</b>				
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
<b>Functions</b>				
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
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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	575
Rated impulse withstand voltage Uimp	kV	6
Operating frequency withstand voltage	kV	4

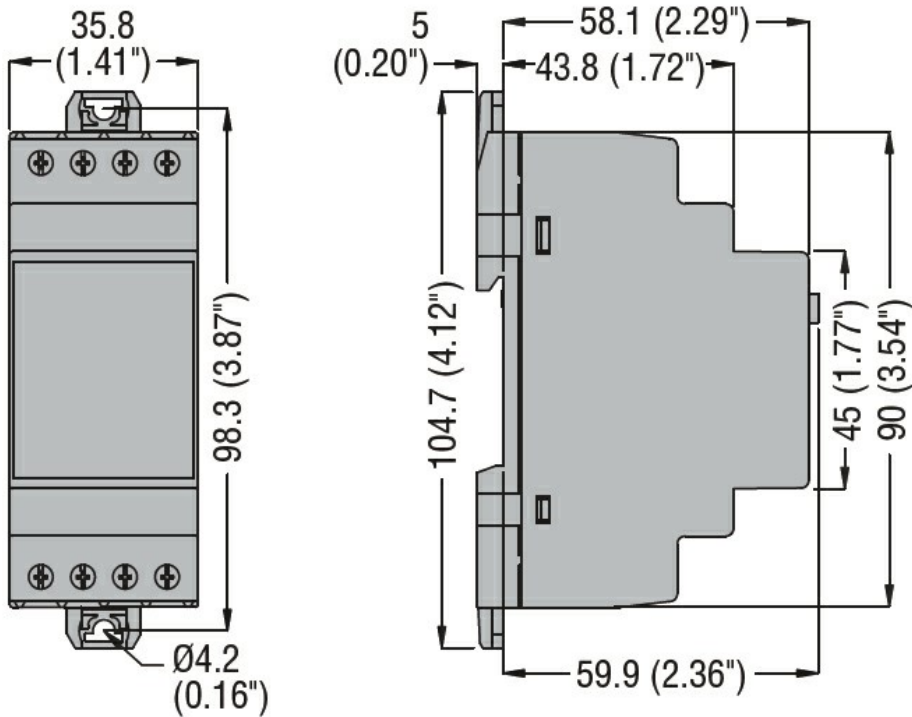
### Ambient conditions

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

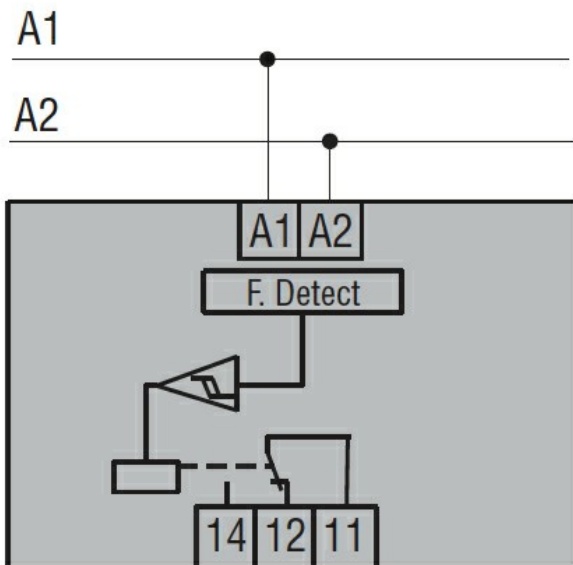
### Housing

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

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UL 60335-2-40 LZGH A2L

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UL 60335-2-89 LZGH A2L

**ETIM classification**

ETIM 8.0

EC001442 -  
Frequency  
monitoring relay