



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		%	<±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	mm²	0.2
	Max	mm²	4

Insulations

Rated insulation voltage Ui	V	575
Rated impulse withstand voltage Uimp	kV	6
Operating frequency withstand voltage	kV	4

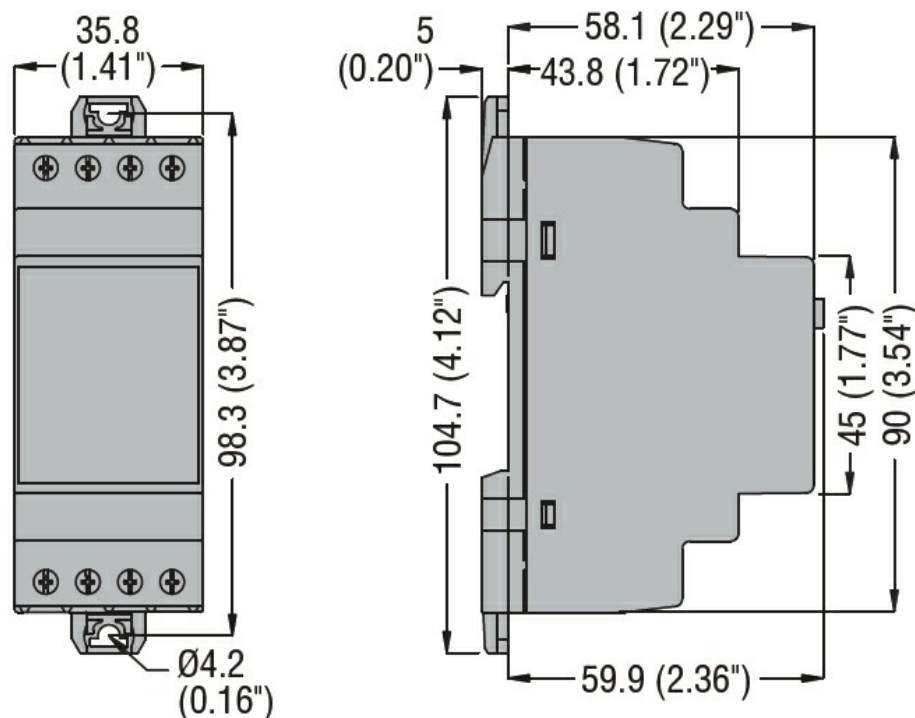
Ambient conditions

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

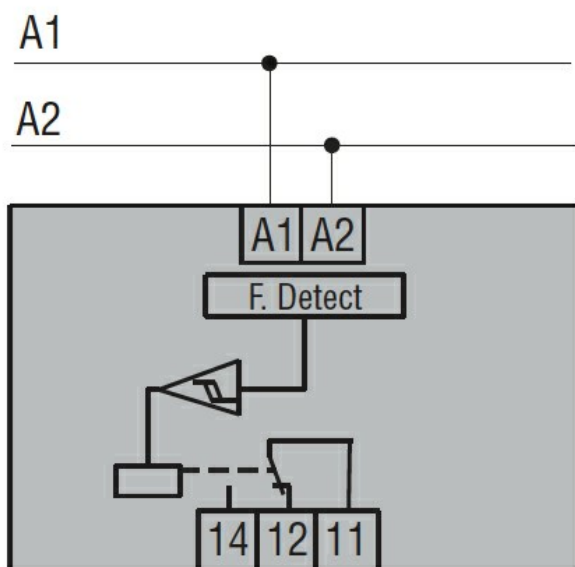
Housing

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