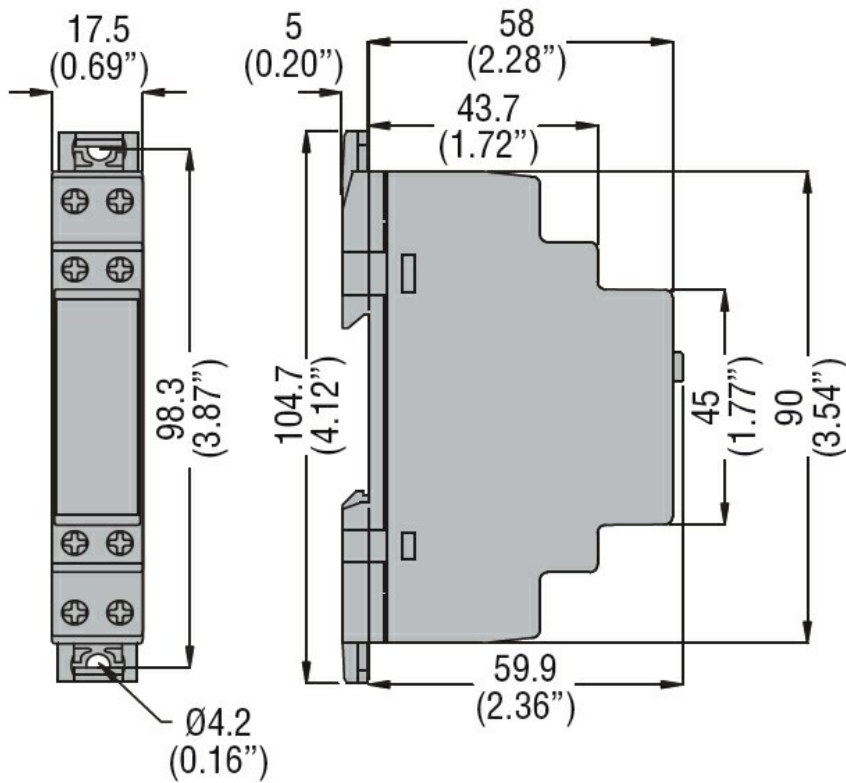


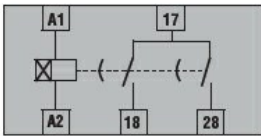


Product designation	Time relay		
Product type designation	TMST		
Number of DIN modules	1		
General characteristics			
Description	Time relay for star-delta starting, multiscale and multivoltage		
Function	Star-delta		
Supply circuit			
Rated auxiliary supply voltage U_s	AC	min	VAC 24
		Max	VAC 240
	DC	min	VDC 24
		Max	VDC 48
Rated frequency		Hz	50/60
Operating voltage range			0.85...1.1 U_s
Maximum power consumption / dissipation		W	1.2VA/0.8W (24...48VAC/DC), 1.6VA/0.9W (110...240VAC/DC)
Immunity time for microbreakings		ms	≤40
Timing circuit			
Time setting range			Multiscale 0.1...1s / 1...10s / 6...60s / 1...10min
Setting accuracy		%	<±9
Repeat accuracy		%	<±0.5
Influence of voltage variation		%	<±0.1
Influence of temperature variation		%	<±0.2
Resetting time	During timing	ms	≥100
	Elapsed time	ms	≥50
Relay outputs			
Number of relays		N°	1
Contact arrangement			1 with 2 N/O with common pole
Maximum switching voltage		VAC	250
IEC Conventional free air thermal current I_{th}		A	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Insulation (input-output)			
Rated insulation voltage U_i		V	250
Rated impulse withstand voltage U_{imp}		kV	4

Power frequency withstand voltage		kV	2
Connections			
Terminals type			Screw
Tightening torque (Max)		Tightening torque Max	Nm 0.8
		Tightening torque Max	lbin 7 / 7...9 UL
Conductor section			
	AWG/Kcmil		
		min	24...12
		max	12...18
	IEC		
		min	mm ² 0.2
		max	mm ² 4
Operations			
Mechanical life		cycles	30000000
Electrical life (with rated load)		cycles	100000
Ambient conditions			
Temperature			
	Operating temperature		
		min	°C -20
		max	°C +60
	Storage temperature		
		min	°C -30
		max	°C +80
Relative humidity		%	<90%
Maximum Pollution degree			2
Overvoltage category			III
Housing			
Execution (n° of modules)			1
Material			Self-extinguishing polyamide
Mounting			DIN rail 35 mm
Degree of protection			IP40 on front, IP20 terminals
Dimensions (W x H x D)		mm	17.5 x 104.7 x 64.9
Weight		g	90
Dimensions			



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n°14
IEC/EN 61812-1
UL508

Certificates

CCC
cULus
EAC

ETIM classification

ETIM 8.0

EC001439 -
Timer relay