



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 Us			24...48VDC; 24...240VAC		
Rated auxiliary supply voltage Us					
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 Us		
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			0.1s...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			Nr.	1	
Contact arrangement			1 with 2 N/O with common pole		
Maximum switching voltage			VAC	250	
IEC Conventional free air thermal current Ith			A	8	
UL/CSA and IEC/EN 60947-5-1 designation			B300		
Insulation (input-output)					
Rated insulation voltage Ui			V	250	
Rated impulse withstand voltage Uimp			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

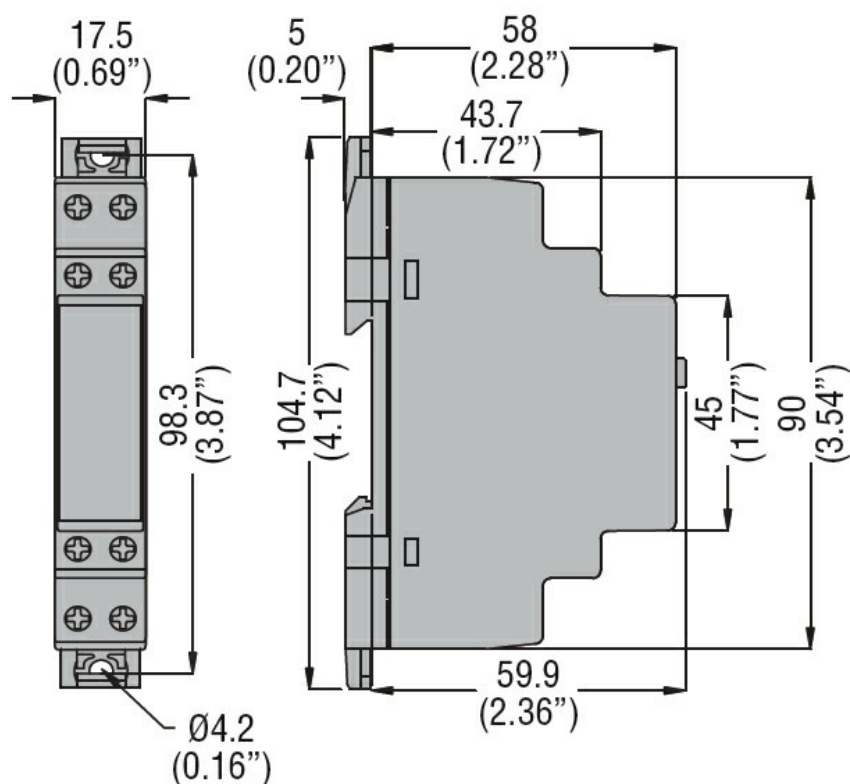
Ambient conditions

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

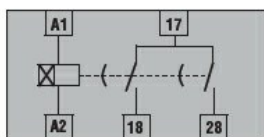
Housing

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