TMST

TIME RELAY FOR STARTING, MULTISCALE, MULTIVOLTAGE, MODULAR VERSION, 24-48VDC, 24...240VAC

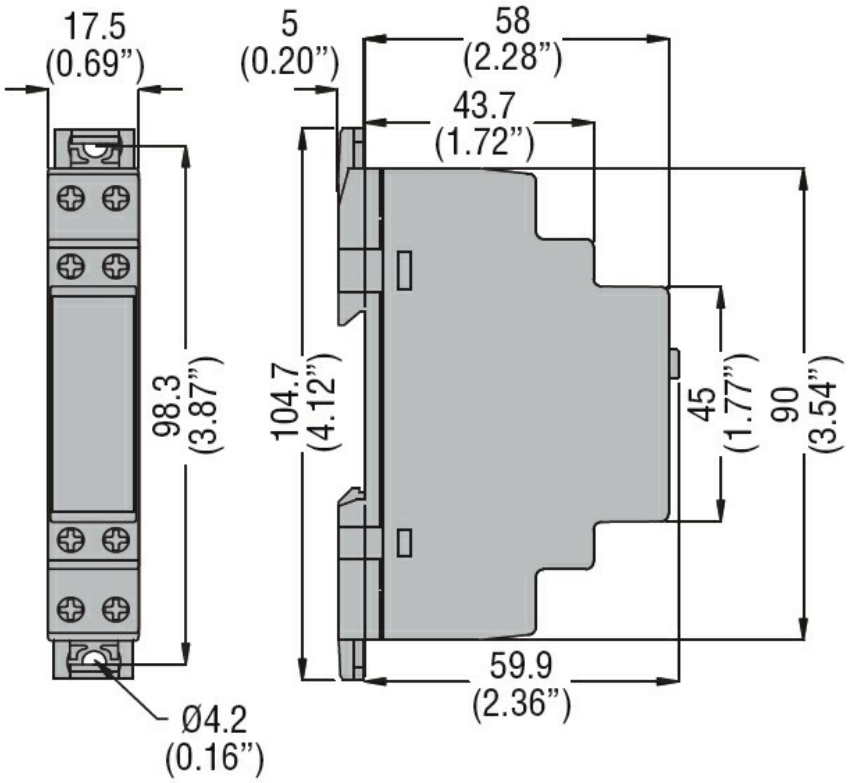


Product designation			Time relay
Product type designation			TMST
Number of DIN modules			1
General characteristics			
Description			Time relay for star-delta starting, multiscale and multivoltage
Function			Star-delta
Supply circuit			
Rated auxiliary supply voltage Us			24…48VDC; 24…240VAC
Rated auxiliary 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

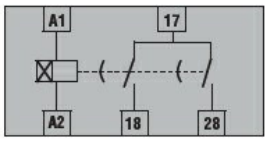
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Connections				
Terminals type				Screw
Tightening torque (Max)				
		Tightening torque Max	Nm	0.8
		Tightening torque Max	lbin	7 / 7...9 UL
Conductor section				
	AWG/Kcmil			
		min		24…12
		max		12…18
	IEC			
		min	mm²	0.2
		max	mm²	4
Operations				
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 [mm (in)]				

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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

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