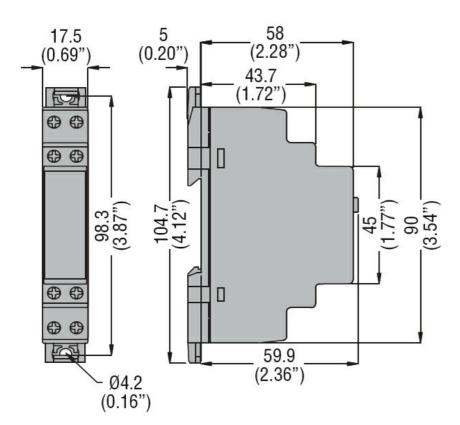


Product designation			Time relay
Product type designation			TMST
Number of DIN modules			1
General characteristics			
Description			Time relay for star-delta starting, multiscale and multivoltage
Function			Star-delta
Supply circuit			
Rated auxiliary supply voltage Us			2448VDC; 24240VAC
Rated auxiliary supply voltage Us			24240070
AC			
	min	VAC	24
	Max	VAC	240
DC			
	min	VDC	24
	Max	VDC	48
Rated frequency		Hz	50/60
Operating voltage range			0.851.1 Us
Maximum power consumption / dissipation		W	1.2VA/0.8W (2448VAC/DC), 16VA/0.9W (110240VAC/DC)
Immunity time for microbreakings		ms	≤40
Timing circuit			
Time setting range			0.1s10min
Setting accuracy		%	<±9
Repeat accuracy		%	<±0.5
Influence of voltage variation		%	<±0.1
Influence of temperature variation Resetting time		%	<±0.2
•	During timing	me	≥100
	Elapsed time	ms ms	≥100 ≥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		А	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



Terminals type			Screw
Tightening torque (Max)			Ociew
	Tightening torque Max	Nm	0.8
	Tightening torque Max	Ibin	7 / 79 UL
Conductor section			
AWG/Kcmil			
	min		2412
	max		1218
IEC			
	min	mm²	0.2
	max	mm²	4
Operations			
Mechanical life		cycles	3000000
Electrical life (with rated load)		cycles	100000
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
	max	°C	+60
Storage temperature			
	min	°C	-30
<u></u>	max	°C	+80
Relative humidity		%	<90%
Maximum Pollution degree			2
Overvoltage category			III
Housing			4
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





Wiring diagrams

A1	1	7
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A2	18	28

Certifications and c	ompliance	
Compliance		
	CSA C22.2 n°14	
	IEC/EN 61812-1	
	UL508	
Certificates		
	202	
	cULus	
	EAC	
ETIM classification		
		EC004420

ETIM 8.0

EC001439 -Timer relay