



			ister.
Product designation			Time relay
Product type designation			TMST
Number of DIN modules			1
General characteristics			
			Time relay for
Description			star-delta starting,
Description			multiscale and
			multivoltage
Function			Star-delta
Supply circuit			
Rated auxiliary supply voltage Us			2448VDC;
			24240VAC
Rated auxiliary supply voltage Us			
AC			0.4
	min	VAC	24
<u></u>	Max	VAC	240
DC			0.4
	min	VDC VDC	24
Dated frequency	Max	Hz	48 50/60
Rated frequency		ΠZ	0.851.1 Us
Operating voltage range			1.2VA/0.8W
			(2448VAC/DC),
Maximum power consumption / dissipation		W	1.6VA/0.9W
			(110240VAC/DC
Immunity time for microbreakings		ms	≤40
Timing circuit			
Time setting range			0.1s10min
Setting accuracy		%	< <u>+</u> 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		А	8
			<b>D</b> a a a
			B300
UL/CSA and IEC/EN 60947-5-1 designation			B300
UL/CSA and IEC/EN 60947-5-1 designation Insulation (input-output)		V	250
UL/CSA and IEC/EN 60947-5-1 designation Insulation (input-output) Rated insulation voltage Ui Rated impulse withstand voltage Uimp		V kV	



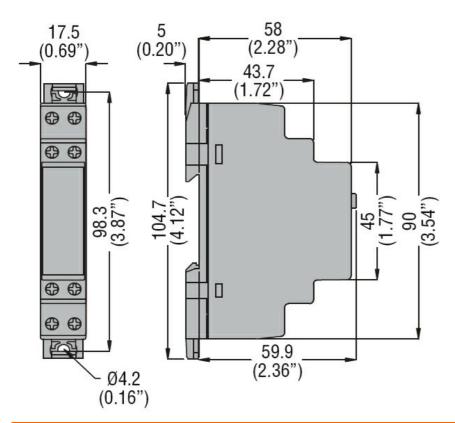
## ZEITRELAIS FÜR STERN-DREIECK-ANLAUFSCHALTUNG, MULTIZEIT, MULTISPANNUNG, MODULARE VERSION, 24...48VDC, 24...240VAC

TMST

Terminals type				Screw
Tightening torque (Ma	x)			
		Tightening torque Max	Nm	0.8
		Tightening torque Max	lbin	7 / 79 UL
Conductor section		5 5 1		
	AWG/Kcmil			
		min		2412
		max		1218
	IEC			
		min	mm²	0.2
		max	mm²	4
Operations				
Mechanical life			cycles	3000000
Electrical life (with rate	ed 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 de				2
Overvoltage category				111
Housing				
Execution (n° of modu	ıles)			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



## **TMST** ZEITRELAIS FÜR STERN-DREIECK-ANLAUFSCHALTUNG, MULTIZEIT, MULTISPANNUNG, MODULARE VERSION, 24...48VDC, 24...240VAC



## Wiring diagrams

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A2	18	28

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

**ETIM 8.0** 

EC001439 -Timer relay