

Product designation			Time relay
Product type designation			TMST
Number of DIN modules			1
General characteristics			The second sector is a
Description			Time relay for star-delta starting, multiscale
Function			Star-delta
Supply circuit			
Rated auxiliary supply voltage Us			380440VAC
Rated auxiliary supply voltage Us			
AC			
	min	VAC	380
	Max	VAC	440
Rated frequency		Hz	50/60
Operating voltage range			0.851.1 Us
Maximum power consumption / dissipation		W	19VA/1.7W (380440VAC)
Immunity time for microbreakings		ms	≤30
			0.4.0
Time setting range		0/	0.1s10min
Setting accuracy		<u>%</u> %	<±9 <±0.5
Repeat accuracy Influence of voltage variation		%	< <u>+0.5</u> < <u>+0.1</u>
Influence of temperature variation		%	< <u>+</u> 0.1 < <u>+</u> 0.2
Resetting time		70	<b>\10.2</b>
	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
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)			0.0
	Tightening torque Max	Nm	0.8
Conductor conting	Tightening torque Max	Ibin	7 / 79 UL

## Conductor section

TMSTA440



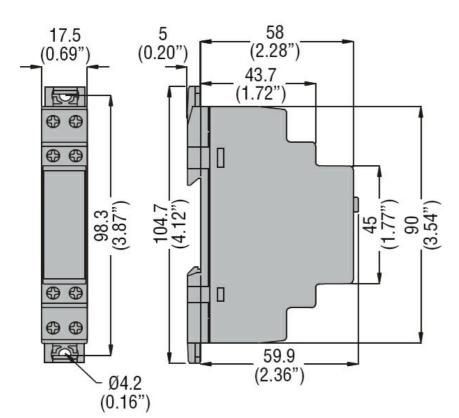
TMSTA440 .

	RELAIS TEMPORISE DE DEMARRAGE, MULTI-ECHELLE, MULTI-TENSION, VERSION
	MODULAIRE, 380440VAC
1	

	AWG/Kcmil			
		min		2412
		max		1218
	IEC			
		min	mm²	0.2
		max	mm²	4
Operations				
Mechanical life			cycles	3000000
Electrical life (with rated	l 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 deg	ree			2
Overvoltage category				111
Housing				
Execution (n° of module	es)			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				

TMSTA440





## Wiring diagrams

A1	1	17
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A2	18	28

Certifications and compliance				
Compliance				
	CSA C22.2 n°14			
	IEC/EN 61812-1			
	UL508			
Certificates				
	CCC			
	cULus			
	EAC			
ETIM classification				
			E0004400	

ETIM 8.0

EC001439 -Timer relay