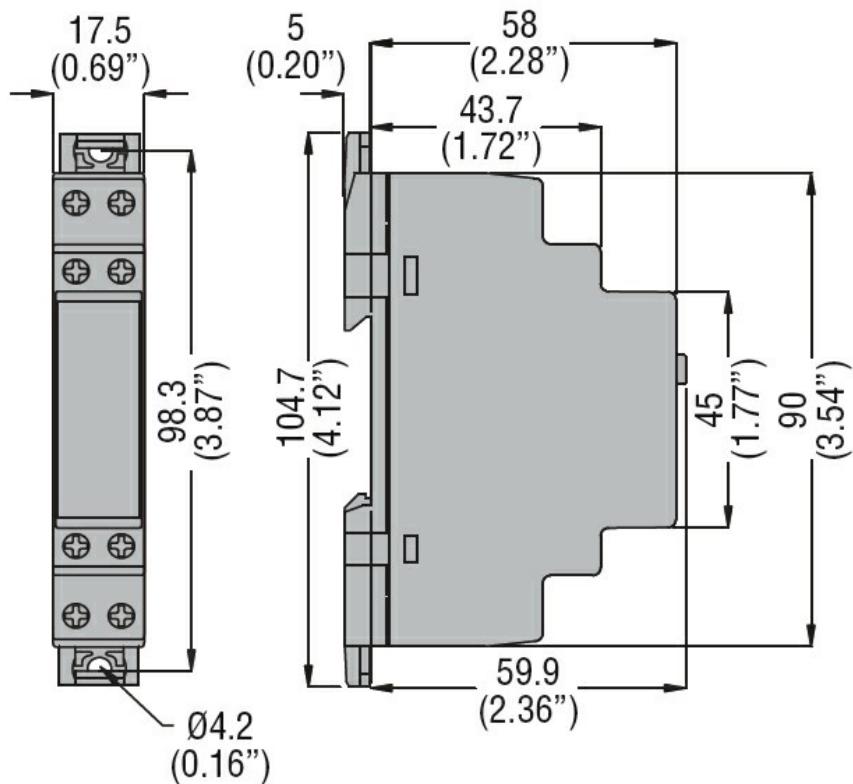


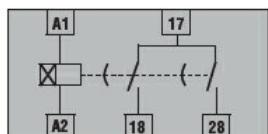


Product designation	Time relay				
Product type designation	TMST				
Number of DIN modules	1				
General characteristics	Time relay for star-delta starting, multiscale				
Description	Time relay for star-delta starting, multiscale				
Function	Star-delta				
Supply circuit					
Rated auxiliary supply voltage Us	380...440VAC				
Rated auxiliary supply voltage Us AC	min	VAC	380		
	Max	VAC	440		
Rated frequency	Hz	50/60			
Operating voltage range	0.85...1.1 Us				
Maximum power consumption / dissipation	W	19VA/1.7W (380...440VAC)			
Immunity time for microbreakings	ms	≤30			
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	Ibin	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