



Product designation	Time relay		
Product type designation	TMST		
Number of DIN modules	1		
General characteristics			
Description	Time relay for star-delta starting, multiscale		
Function	Star-delta		
Supply circuit			
Rated auxiliary supply voltage U_s	380...440VAC		
Rated auxiliary supply voltage U_s AC	min	VAC	380
	Max	VAC	440
Rated frequency	Hz		50/60
Operating voltage range	0.85...1.1 U_s		
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 I_{th}	A		8
UL/CSA and IEC/EN 60947-5-1 designation	B300		
Insulation (input-output)			
Rated insulation voltage U_i	V		250
Rated impulse withstand voltage U_{imp}	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	
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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%
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Maximum Pollution degree	2
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Overvoltage category	III
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Housing

Execution (n° of modules)	1
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Material	Self-extinguishing polyamide
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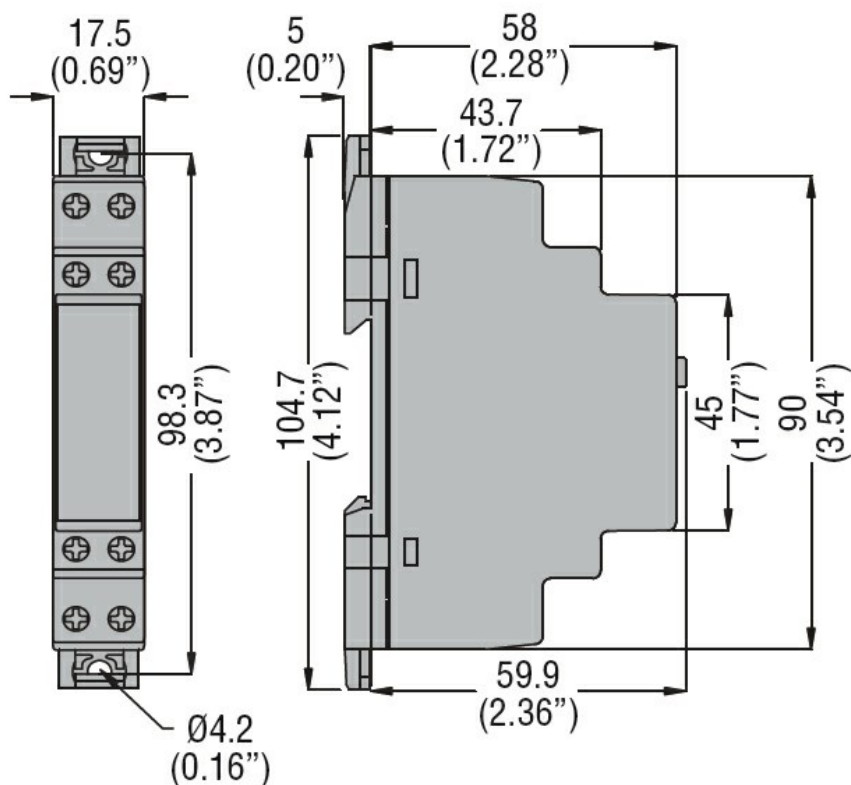
Mounting	DIN rail 35 mm
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Degree of protection	IP40 on front, IP20 terminals
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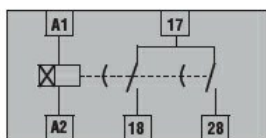
Dimensions (W x H x D)	mm	17.5 x 104.7 x 64.9
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Weight	g	90
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Dimensions [mm (in)]



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