



Product designation	Time relay		
Product type designation	TMM1		
Number of DIN modules	1		
General characteristics			
Description	Multifunction time relay, multiscale and multivoltage time relay, 1 relay output		
Function	Multifunction		
Supply circuit			
Rated auxiliary supply voltage $U_s$	12...240VAC/DC		
Rated auxiliary supply voltage $U_s$ AC	min Max	VAC VAC	12 240
DC	min Max	VDC VDC	12 240
Rated frequency	Hz		50/60
Operating voltage range	0.85...1.1 $U_s$		
Maximum power consumption / dissipation	W		0.6VA/0.3W (12...48VAC/DC), 1.6VA/1.2W (110...240VAC/DC)
Immunity time for microbreakings	ms		≤25
Timing circuit			
Time setting range	0.1s...10days		
Setting accuracy	%		<±9
Repeat accuracy	%		<±0.5
Influence of voltage variation	%		<±0.1
Influence of temperature variation	%		<±0.2
External command input	Minimum ON time Connenction time	ms	25 permanent
Resetting time	During timing Elapsed time	ms ms	≥100 ≥50
Relay outputs			
Number of relays	Nr.		1
Contact arrangement	1 delayed changeover		
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 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 <sup>2</sup>	0.2
		max	mm <sup>2</sup>	4

#### Operations

Mechanical life	cycles	30000000
Electrical life (with rated load)	cycles	100000

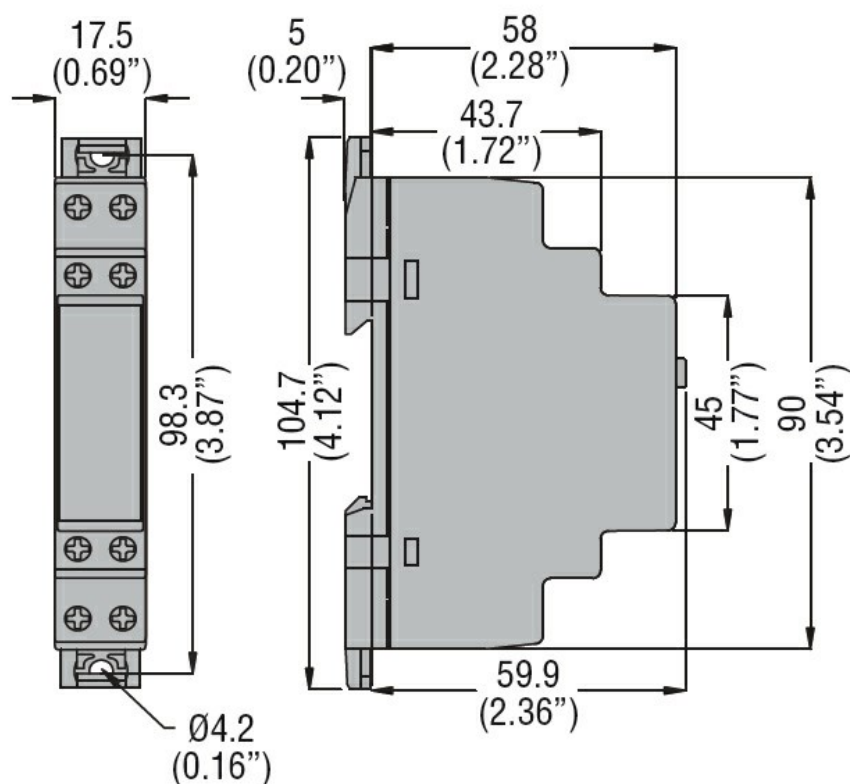
#### Ambient conditions

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

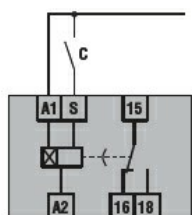
#### Housing

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	86

#### Dimensions



## Wiring diagrams



## Certifications and compliance

### Compliance

CSA C22.2 n°14  
IEC/EN 61812-1  
UL508

### Certificates

cULus  
EAC

## ETIM classification

ETIM 8.0

EC001439 -  
Timer relay