



Product designation	Time relay		
Product type designation	TMM1		
Number of DIN modules	1		
<b>General characteristics</b>			
Description	Multifunction time relay, multiscale and multivoltage time relay, 1 relay output		
Function	Multifunction		
<b>Supply circuit</b>			
Rated auxiliary supply voltage $U_s$	12...240VAC/DC		
Rated auxiliary supply voltage $U_s$			
AC	min	VAC	12
	Max	VAC	240
DC	min	VDC	12
	Max	VDC	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	
<b>Timing circuit</b>			
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	ms	25
	Connenction time		permanent
Resetting time	During timing	ms	≥100
	Elapsed time	ms	≥50
<b>Relay outputs</b>			
Number of relays	Nr.	1	
Contact arrangement	1 delayed changeover		
Maximum switching voltage	VAC	250	
IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$	A	8	
UL/CSA and IEC/EN 60947-5-1 designation	B300		
<b>Insulation (input-output)</b>			

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

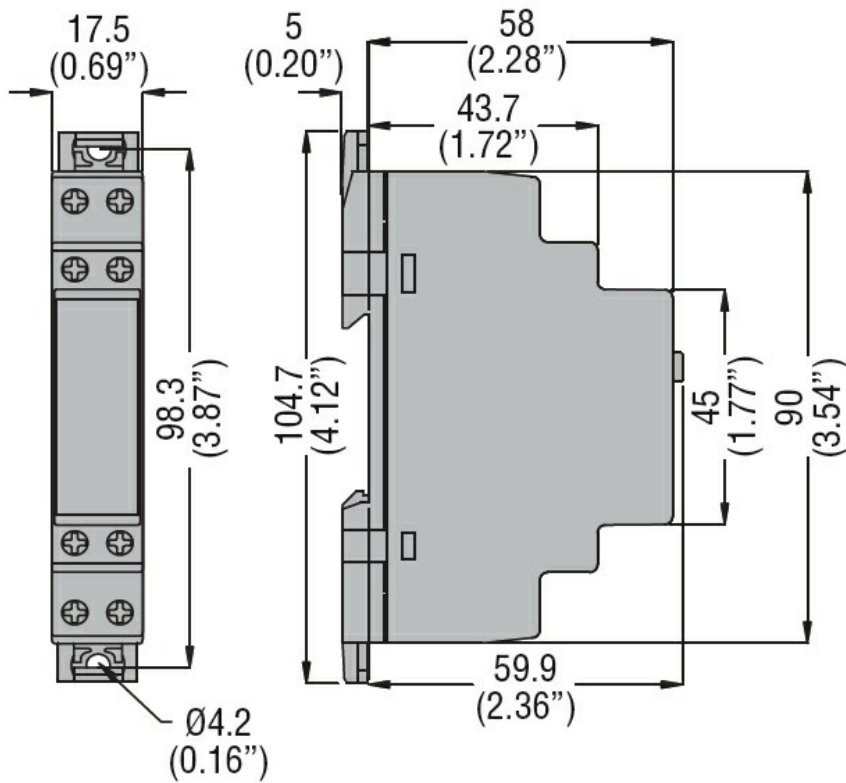
### Ambient conditions

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	

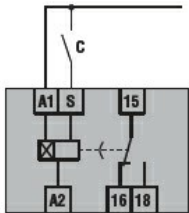
### Housing

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