



Product designation				Time relay
Product type designation				TMM1NFC
Number of DIN modules				1
<b>General characteristics</b>				
Description				Multifunction time relay, programmable with NFC, multiscale and multivoltage
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...999days
Repeat accuracy		%	< $\pm$ 0.1	
Influence of voltage variation		%	< $\pm$ 0.1	
Influence of temperature variation		%	< $\pm$ 0.2	
External command input	Minimum ON time	ms	25	
	Connention 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 $I_{th}$		A	8	
UL/CSA and IEC/EN 60947-5-1 designation				B300
<b>Insulation (input-output)</b>				

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	
	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

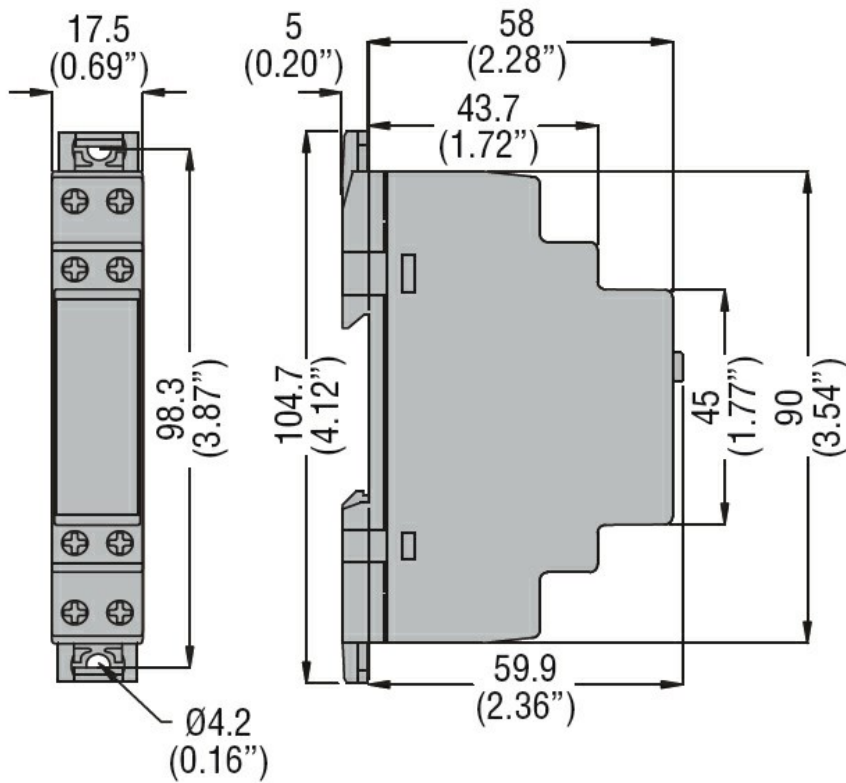
### Ambient conditions

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	

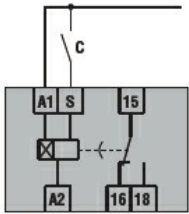
### Housing

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

CCC

cULus

EAC

### ETIM classification

ETIM 8.0

EC001439 -  
Timer relay