



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	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
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	ms	25	
	Connenction time		permanent	
Resetting time	During timing	ms	≥100	
	Elapsed time	ms	≥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 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	lbin	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

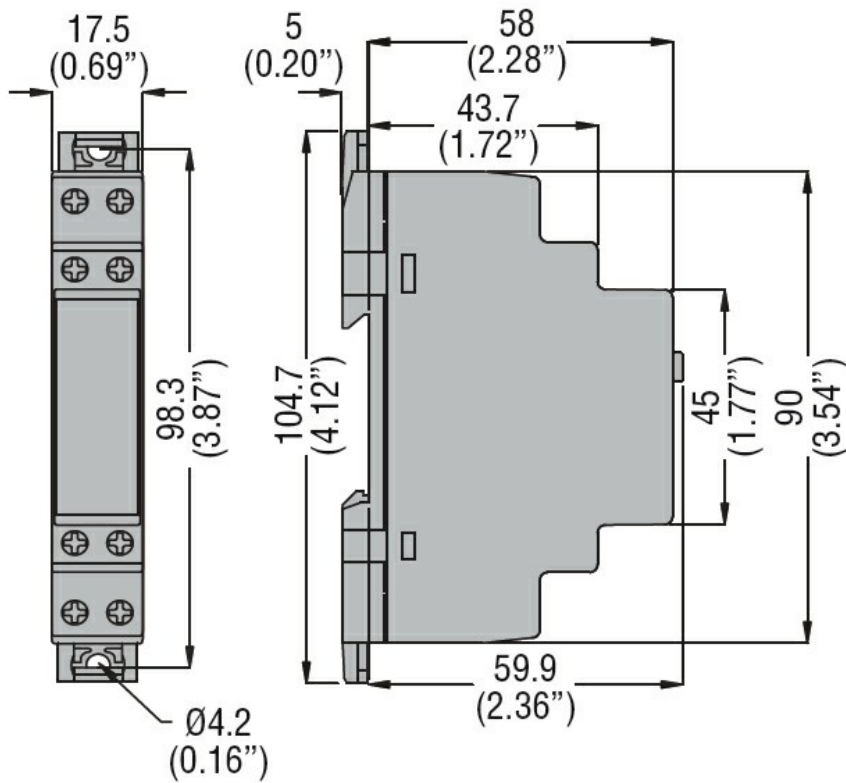
Ambient conditions

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	

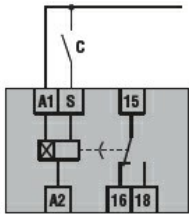
Housing

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	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