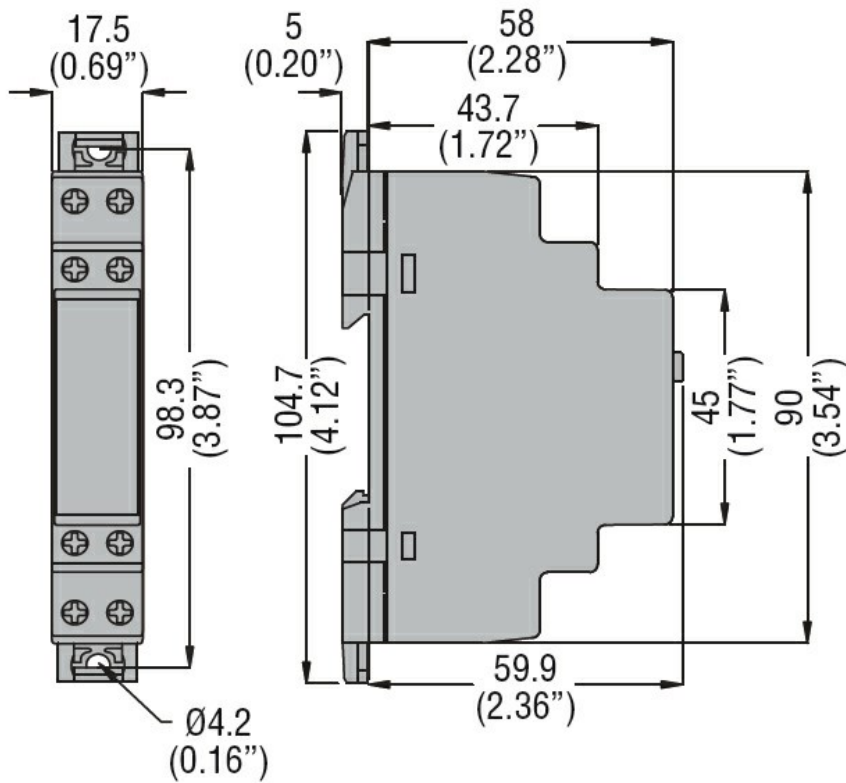


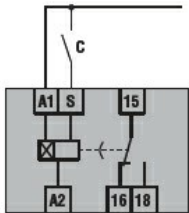


Product designation	Time relay		
Product type designation	TMM1		
Number of DIN modules	1		
General characteristics			
Description	Multifunction time relay, multiscale and multivoltage time relay, 1 relay output		
Function	Multifunction		
Supply circuit			
Rated auxiliary supply voltage U_s	12...240VAC/DC		
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	Ibin 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 [mm (in)]		



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