



Product designation	Time relay
Product type designation	TMM2
Number of DIN modules	1

General characteristics

Description	Multifunction time relay, multiscale and multivoltage, 2 relay outputs
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	1.1VA/0.8W (12...48VAC/DC), 1.8VA/1.2W (110...240VAC/DC)
---	---	---

Immunity time for microbreakings	ms	≤15
----------------------------------	----	-----

Timing circuit

Time setting range	0.1s...10days	
--------------------	---------------	--

Setting accuracy	%	<±9
------------------	---	-----

Repeat accuracy	%	<±0.2
-----------------	---	-------

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.	2
------------------	-----	---

Contact arrangement	1 inst./delayed N/O + 1 delayed C/O	
---------------------	---	--

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

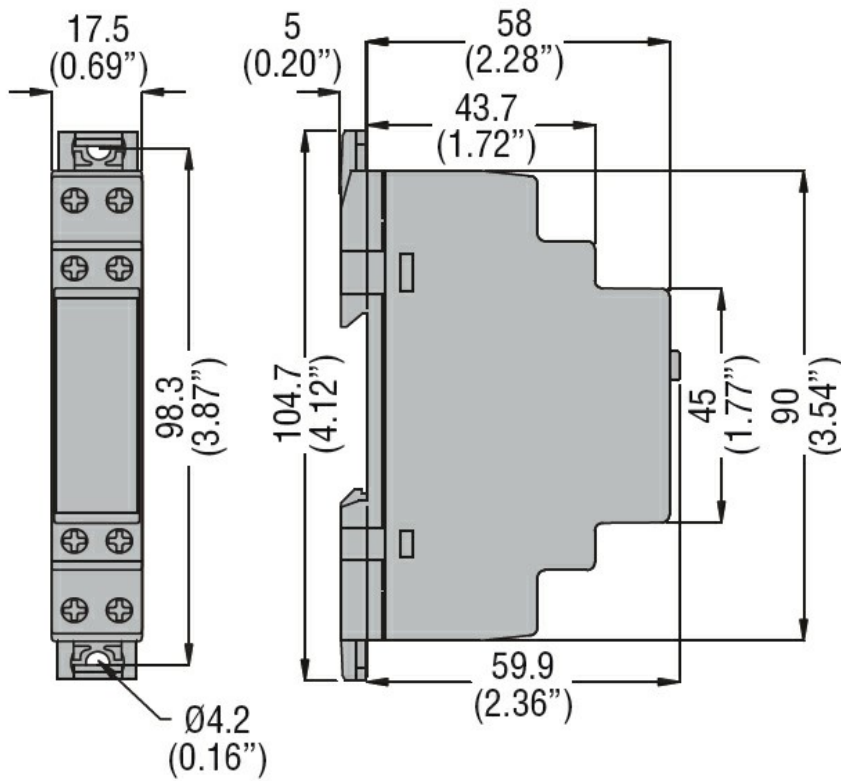
Temperature			
	Operating temperature		
		min	°C -20
		max	°C +60
	Storage temperature		
		min	°C -30
		max	°C +80

Relative humidity	%	<90%
Maximum Pollution degree		2
Overvoltage category		III

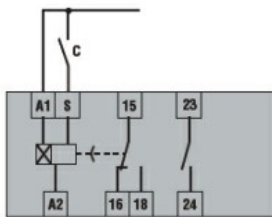
Housing

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 94

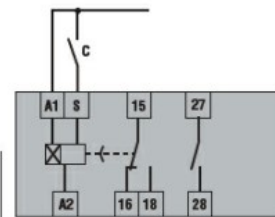
Dimensions



Wiring diagrams



With instantaneous operation programmed



With delayed operation programmed



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