Lovato electric
ENERGY AND AUTOMATION

|			
Product designation			Time relay
Product type designation			TMD
Number of DIN modules			1
General characteristics			
Description			True off delay time relay, multiscale
Function			True off delay
Supply circuit			
Rated auxiliary supply voltage Us			24…240VAC/DC
Rated auxiliary supply voltage Us			
AC			
	min	VAC	24
	Max	VAC	240
DC			
	min	VDC	24
	Max	VDC	240
Rated frequency		Hz	50/60
Operating voltage range			0.85...1.1 Us
Maximum power consumption / dissipation		W	0.1VA/0.1W (24...48VAC/DC), 1.1VA/0.8W (110...240VAC/DC)
Timing circuit			
Time setting range			0.06...180s
Setting accuracy		%	<±9
Repeat accuracy		%	<±0.5
Influence of voltage variation		%	<±0.1
Influence of temperature variation		%	<±0.2
Minimum power time		ms	≥200
Relay outputs			
Number of relays		Nr.	1
Contact arrangement			1 delayed changeover
Maximum switching voltage		VAC	250
IEC Conventional free air thermal current Ith		A	5
UL/CSA and IEC/EN 60947-5-1 designation			B300
Insulation (input-output)			
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	mm²	0.2
		max	mm²	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	80
Dimensions				

TMD

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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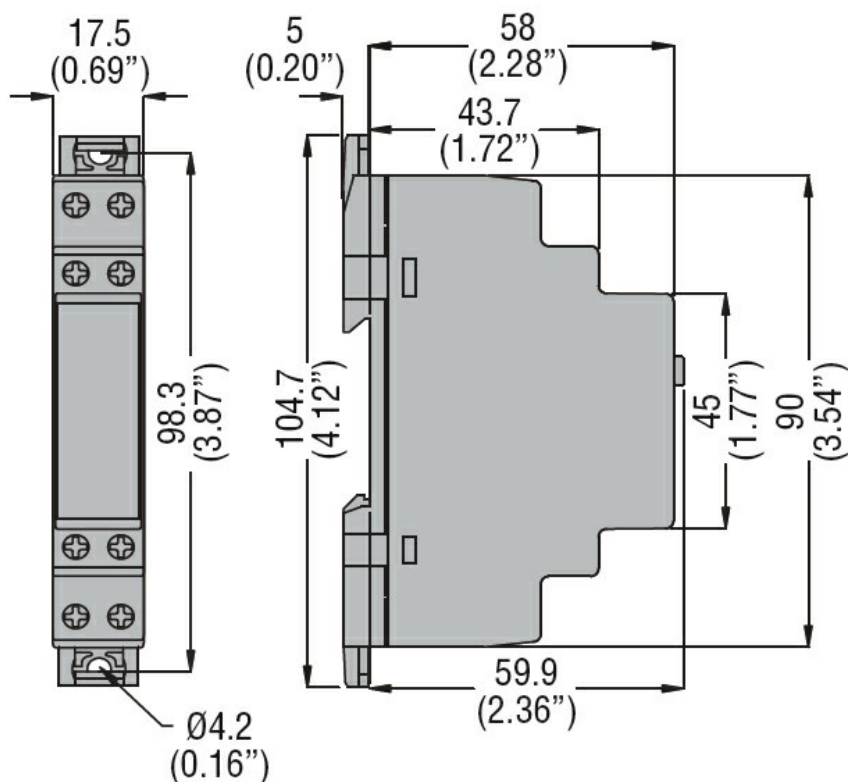
Wiring diagrams
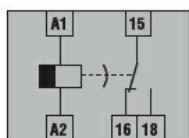
Certifications and compliance

Compliance

	CSA C22.2 n°14
	IEC/EN 61812-1
	UL508

Certificates

	CCC
	cULus
	EAC

ETIM classification

ETIM 8.0	EC001439 - Timer relay