

Product designation				Time relay
Product type designation				TMM1
Number of DIN modules				1
<b>General characteristics</b>				
Description				Multifunction time relay, multiscale and multivoltage time relay, 1 relay output
Function				Multifunction
<b>Supply circuit</b>				
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				Multiscale 0.1...1s / 1...10s / 6...60s / 1...10min / 6min...1h / 1...10h / 0.1...1day / 1...10days / ON only / OFF only
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
<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 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	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	cULus
	EAC

### ETIM classification

ETIM 8.0	EC001439 - Timer relay
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