



Product designation			Time relay	
Product type designation			L48M	
General characteristics				
Description			Multifunction time relay, multiscale and multivoltage	
Function			Multifunction	
Supply circuit				
Rated auxiliary supply voltage $U_s$			24...240VAC/DC	
Rated auxiliary supply voltage $U_s$ AC			min Max	VAC VAC 24 240
DC			min Max	VDC VDC 24 240
Rated frequency			Hz	50/60
Operating voltage range			0.85...1.1 $U_s$	
Maximum power consumption / dissipation			W	6VA
Immunity time for microbreakings			ms	≤40
Timing circuit				
Time setting range			0.05s...10min	
Setting accuracy			%	±5
Repeat accuracy			%	±0.5
Influence of voltage variation			%	±0.5
Resetting time			During timing Elapsed time	ms ms ≥100 ≥65
Relay outputs				
Number of relays			Nr.	2
Contact arrangement			2 delayed C/O	
Maximum switching voltage			VAC	250
IEC Conventional free air thermal current $I_{th}$			A	5
UL/CSA and IEC/EN 60947-5-1 designation			B300	
Insulation (input-output)				
Rated insulation voltage $U_i$			V	250
Power frequency withstand voltage			kV	2
Operations				
Mechanical life			cycles	30000000
Electrical life (with rated load)			cycles	100000
Ambient conditions				
Temperature				
Operating temperature			min max	°C °C -10 +60

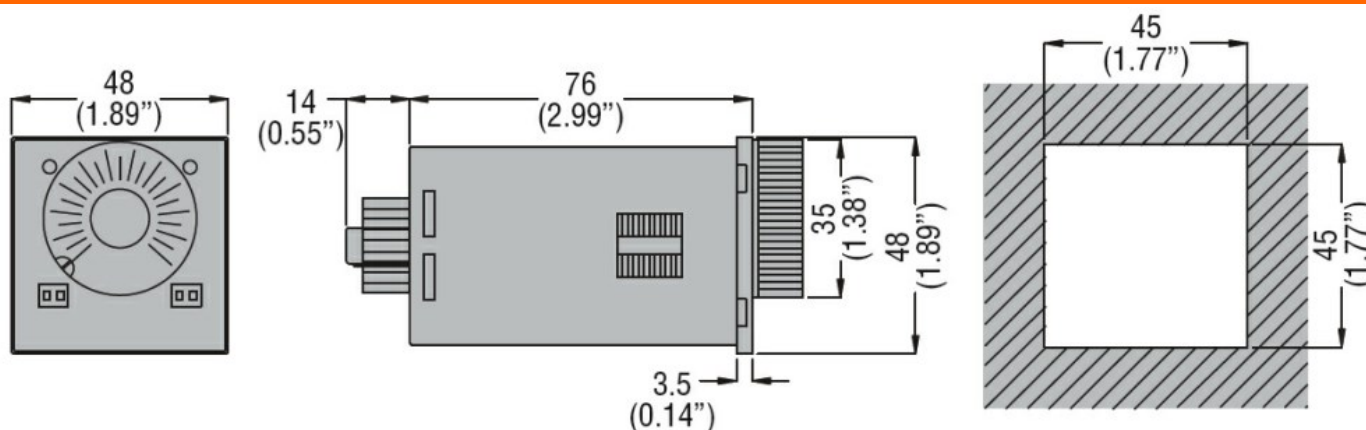
Storage temperature

min	°C	-30
max	°C	+80

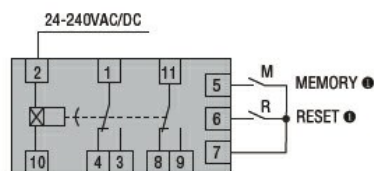
Housing

Material	Self-extinguishing polyamide
Mounting	Plug-in housing with 11-pin socket
Degree of protection	IP40 on front, IP20 terminals
Dimensions (W x H x D)	mm 48 x 48 x 90
Weight	g 135

Dimensions



Wiring diagrams



T (preset time) = T1+T2

① Contacts "M" and "R" are to be volt free (dry).

Certifications and compliance

Compliance

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

Certificates

cURus  
EAC

ETIM classification

ETIM 8.0

EC001439 -  
Timer relay