



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

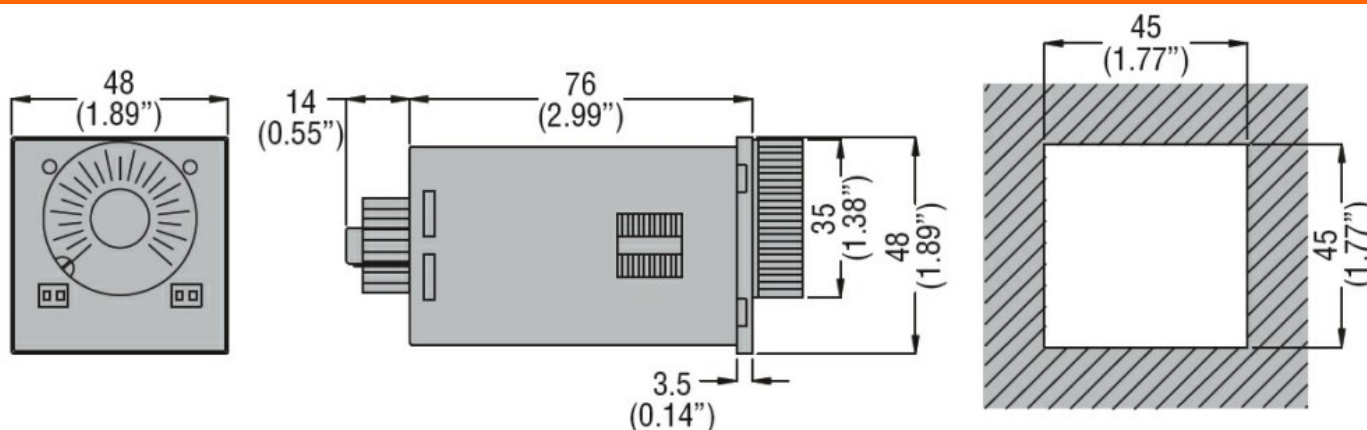
Storage temperature

min	°C	-30
max	°C	+80

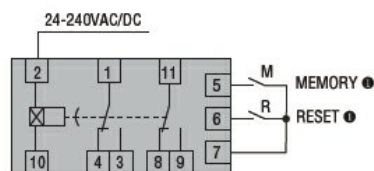
Housing

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