



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	VAC	24	
			Max	VAC	240	
DC			min	VDC	24	
			Max	VDC	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		ms	≥100
			Elapsed time		ms	≥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	°C	-10	
			max	°C	+60	

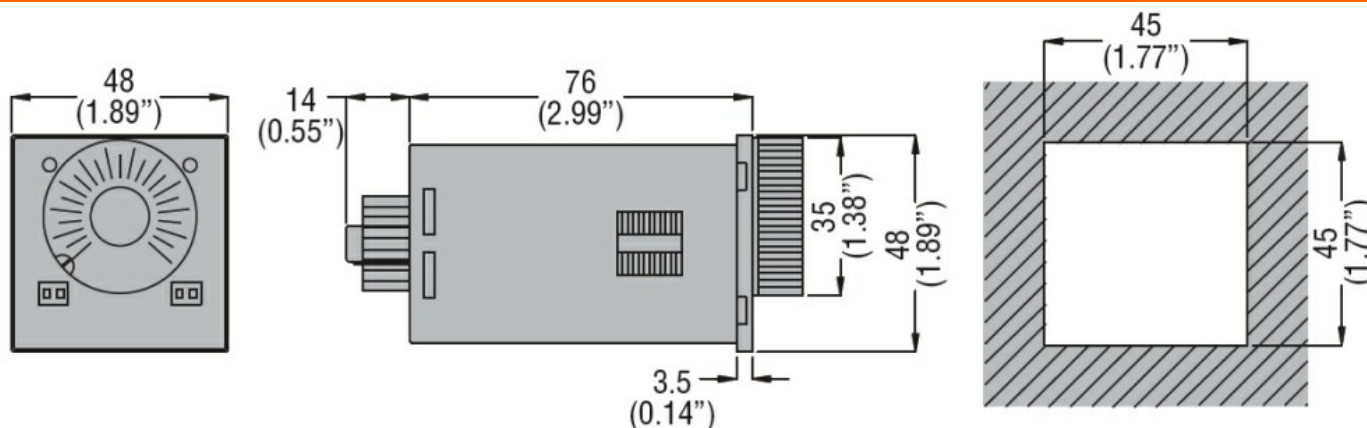
Storage temperature

min	°C	-30
max	°C	+80

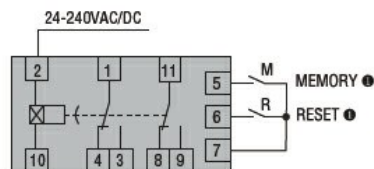
Housing

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


$$T \text{ (preset time)} = T_1 + T_2$$

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

$$\frac{\text{cURus}}{\text{EAC}}$$

ETIM classification

ETIM 8.0	EC001439 - Timer relay
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