# 31L48MH240

TIME RELAY, MULTIFUNCTION, MULTIVOLTAGE AND MULTISCALE, PLUG-IN AND FLUSH-MOUNT VERSION 48X48MM, 24...240VAC/DC



| | | | | |
|---|---|---|---|---|
| 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 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 | 6VA |
| Immunity time for microbreakings | | | ms | ≤40 |
| **Timing circuit** | | | | |
| Time setting range | | | | 0.05min...10h |
| 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 Ith | | | A | 5 |
| UL/CSA and IEC/EN 60947-5-1 designation | | | | B300 |
| **Insulation (input-output)** | | | | |
| Rated insulation voltage Ui | | | 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 |

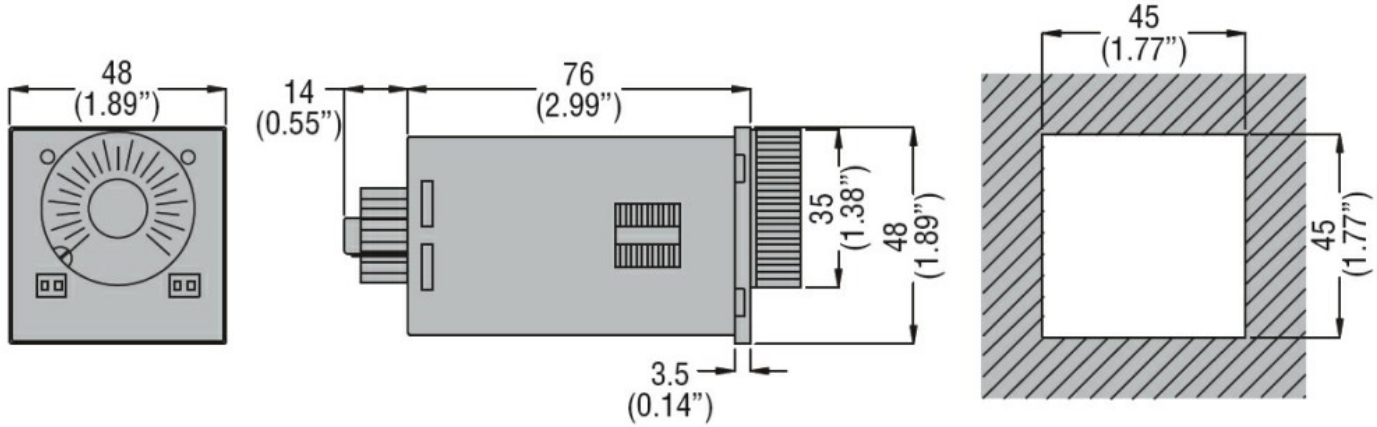

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| | | | |
|---|---|---|---|
| Storage temperature | | | |
| | min | °C | -30 |
| | max | °C | +80 |

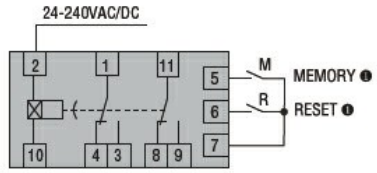
## Housing

| | | |
|---|---|---|
| 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
❶ 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 |


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