



## General characteristics

|                                                                            |  |  |                                                                        |                                                          |
|----------------------------------------------------------------------------|--|--|------------------------------------------------------------------------|----------------------------------------------------------|
| Description                                                                |  |  | Multifunction time relay, multiscale and multivoltage, 2 relay outputs |                                                          |
| Function                                                                   |  |  | Multifunction                                                          |                                                          |
| Supply circuit                                                             |  |  |                                                                        |                                                          |
| Rated auxiliary supply voltage $U_s$                                       |  |  | 12...240VAC/DC                                                         |                                                          |
| Rated auxiliary supply voltage $U_s$<br>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                                                                      | 1.1VA/0.8W (12...48VAC/DC), 1.8VA/1.2W (110...240VAC/DC) |
| Immunity time for microbreakings                                           |  |  | ms                                                                     | ≤15                                                      |
| Timing circuit                                                             |  |  |                                                                        |                                                          |
| Time setting range                                                         |  |  | 0.1s...10days                                                          |                                                          |
| Setting accuracy                                                           |  |  | %                                                                      | <±9                                                      |
| Repeat accuracy                                                            |  |  | %                                                                      | <±0.2                                                    |
| Influence of voltage variation                                             |  |  | %                                                                      | <±0.1                                                    |
| Influence of temperature variation                                         |  |  | %                                                                      | <±0.2                                                    |
| External command input                                                     |  |  | Minimum ON time<br>Connenction time                                    | ms<br>25 permanent                                       |
| Resetting time                                                             |  |  | During timing<br>Elapsed time                                          | ms<br>≥100<br>ms<br>≥50                                  |
| Relay outputs                                                              |  |  |                                                                        |                                                          |
| Number of relays                                                           |  |  | Nr.                                                                    | 2                                                        |
| Contact arrangement                                                        |  |  | 1 inst./delayed<br>N/O + 1 delayed<br>C/O                              |                                                          |
| Maximum switching voltage                                                  |  |  | VAC                                                                    | 250                                                      |
| IEC Conventional free air thermal current $I_{th} \leq 40^{\circ}\text{C}$ |  |  | A                                                                      | 8                                                        |
| UL/CSA and IEC/EN 60947-5-1 designation                                    |  |  | B300                                                                   |                                                          |
| Insulation (input-output)                                                  |  |  |                                                                        |                                                          |
| Rated insulation voltage $U_i$                                             |  |  | V                                                                      | 250                                                      |
| Rated impulse withstand voltage $U_{imp}$                                  |  |  | kV                                                                     | 4                                                        |
| Power frequency withstand voltage                                          |  |  | kV                                                                     | 2                                                        |

## Connections

|                         |                       |                 |              |
|-------------------------|-----------------------|-----------------|--------------|
| Terminals type          | Screw                 |                 |              |
| Tightening torque (Max) | Tightening torque Max | Nm              | 0.8          |
|                         | Tightening torque Max | lbin            | 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            |

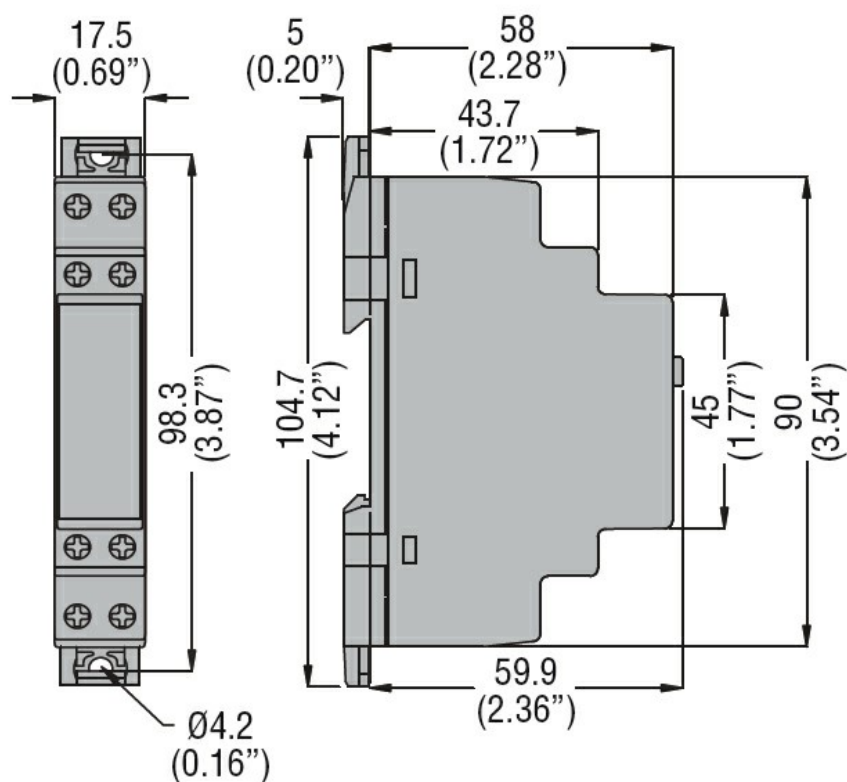
## Operations

|                                   |        |          |
|-----------------------------------|--------|----------|
| Mechanical life                   | cycles | 30000000 |
| Electrical life (with rated load) | cycles | 100000   |

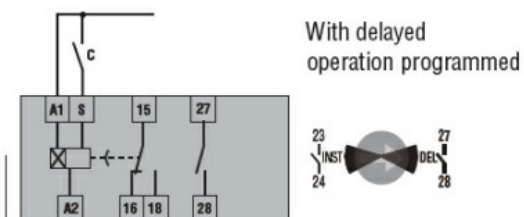
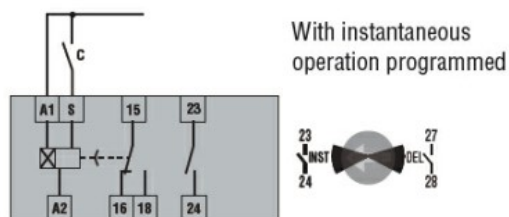
## Ambient conditions

|                           |     |    |                               |
|---------------------------|-----|----|-------------------------------|
| 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  | 94                            |

## 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