



### Input characteristics

|                                    |                            |           |
|------------------------------------|----------------------------|-----------|
| Control voltage                    |                            | 4...32VDC |
| Operating voltage limits           |                            |           |
|                                    | Operating voltage pick-up  | V 4       |
|                                    | Operating voltage drop-out | V 2       |
| Input current at min...max voltage | mA                         | 8...12    |

### Operating times

|               |                |
|---------------|----------------|
| Switching-on  | Half cycle max |
| Switching-off | Half cycle max |

### Output characteristics

|  |      |                                    |
|--|------|------------------------------------|
| Static output type                                     |      | SCR (silicon controlled rectifier) |
| Switching mode   |      | Zero crossing                      |
| Rated operating voltage                                | VAC  | 48...600                           |
| Blocking voltage                                       | V    | 1200                               |
| Operational frequency (min...max)                      | Hz   | 45...65                            |
| Rated operating current AC-51 (resistive load) at 40°C | A    | 25                                 |
| Rated operating current AC-51 (resistive load) at 55°C | A    | 22                                 |
| Operational current min                                | A    | 0.165                              |
| Non repetitive surge peak on state current t=10ms      | A    | 520                                |
| Off state leakage current                              | mA   | 1                                  |
| On state output voltage drop                           | V    | 1.2                                |
| Critical rate of rise of off-state voltage dv/dt       | V/μs | 1000                               |
| Input - Output isolation                               | V    | 5000                               |
| Input - Output to metal base                           | V    | 5000                               |
| Output protection type                                 |      | VDR                                |
| I2t  | A2s  | 1350                               |

### Terminal characteristics

|   |                                  |                |
|---|----------------------------------|----------------|
| Control terminals   | Type                             | Screw          |
| Terminals tool  |                                  | Blade 3.5mm    |
| Tightening torque control terminals   | Nm                               | 0.5Nm          |
|   | Ibin                             | 4.5            |
| Conductor section connectable (control terminals) with 1 or 2 wires min...max |                                  |                |
|   | AWG stranded                     | n° 28...12     |
|   | Flexible w/o lug                 | mm2 0.75...2.5 |
|   | Flexible c/w insulated spade lug | mm2 0.75...2.5 |
| Load terminals  | Type                             | Screw          |
| Load terminals tool   |                                  | PH2            |
| Tightening torque load terminals  | Nm                               | 1.5            |
|   | Ibin                             | 13.3           |
| Conductor section connectable (load terminals) with 1 or 2 wires min...max    |                                  |                |
|   | AWG stranded                     | n° 18...10     |

|                                  |                 |        |
|----------------------------------|-----------------|--------|
| Flexible w/o lug                 | mm <sup>2</sup> | 1...6  |
| Flexible c/w insulated spade lug | mm <sup>2</sup> | 1...16 |

Operating position

allowable

On vertical plane

Fixing

Screw or on  
35mm DIN rail

**Ambient conditions**

Temperature

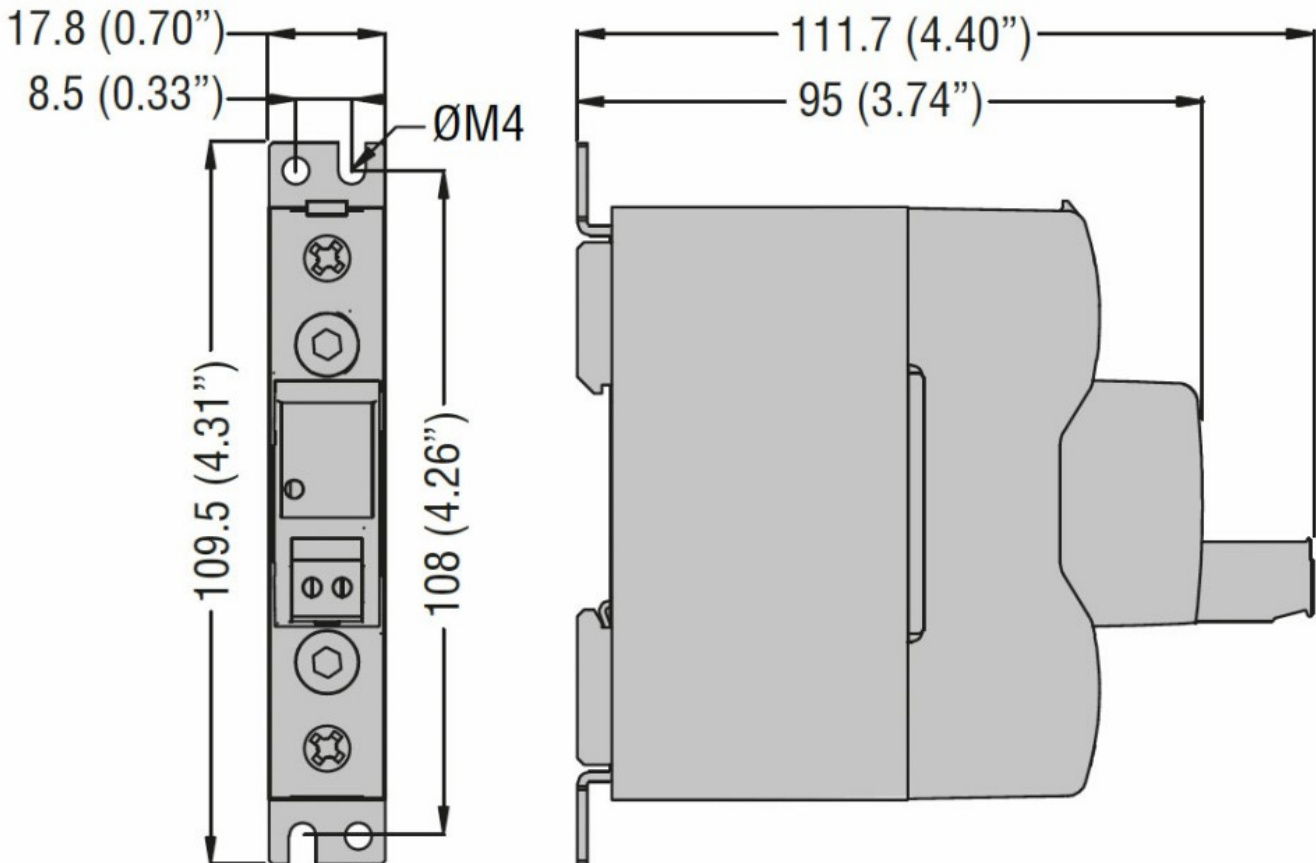
Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +80 |

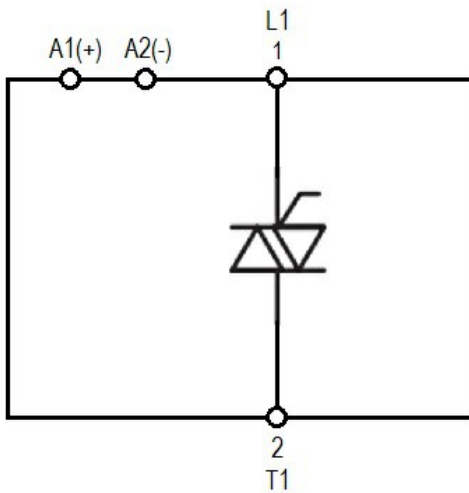
Storage temperature

|     |    |      |
|-----|----|------|
| min | °C | -40  |
| max | °C | +130 |

**Dimensions**



**Wiring diagrams**



### Certifications and compliance

#### Certifications

IEC/EN/BS 60335-1

IEC/EN/BS 60947-4-2

IEC/EN/BS 60947-4-3

IEC/EN/BS 62314

#### Compliance

cULus

### ETIM classification

EC000066 - Power contactor, AC switching