



#### 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

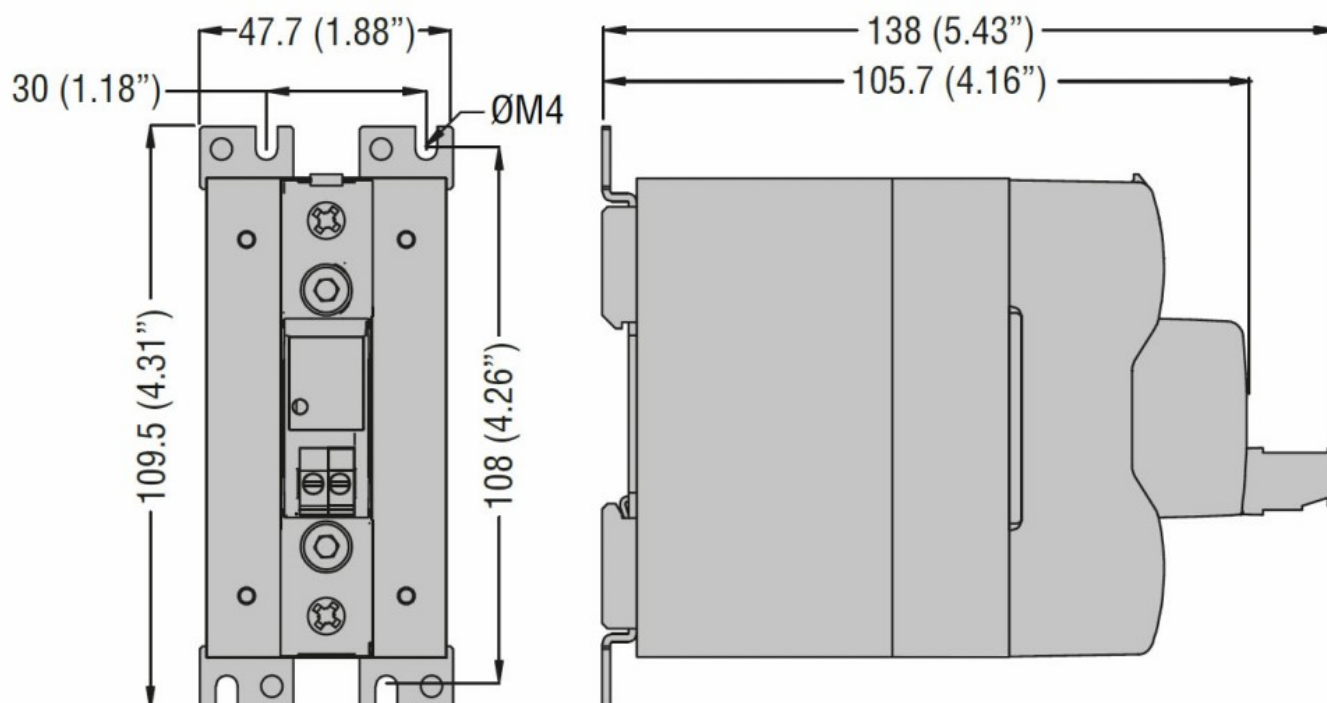
|                                                        |      |                                    |
|--------------------------------------------------------|------|------------------------------------|
| Static output type                                     |      | SCR (silicon controlled rectifier) |
| 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    | 40                                 |
| Rated operating current AC-51 (resistive load) at 55°C | A    | 32                                 |
| 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

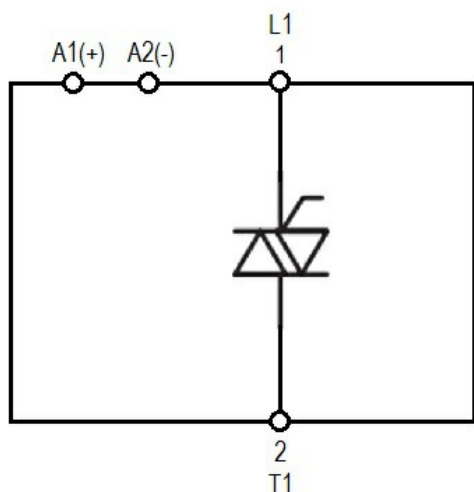
|                                                                               |             |            |
|-------------------------------------------------------------------------------|-------------|------------|
| Control terminals                                                             | Type        | 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                 | mm2 | 1...6                        |
|                    | Flexible c/w insulated spade lug | mm2 | 1...16                       |
| Operating position |                                  |     |                              |
|                    | allowable                        |     | On vertical plane            |
| Fixing             |                                  |     | Screw or on<br>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