



### Input characteristics

|                                    |                            |        |   |
|------------------------------------|----------------------------|--------|---|
| Control voltage                    | 4...30VDC                  |        |   |
| Operating voltage limits           |                            |        |   |
|                                    | Operating voltage pick-up  | V      | 4 |
|                                    | Operating voltage drop-out | V      | 1 |
| Input current at min...max voltage | mA                         | 3...29 |   |
| Input reverse voltage              | V                          | 30     |   |

### Operating times

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

### Output characteristics

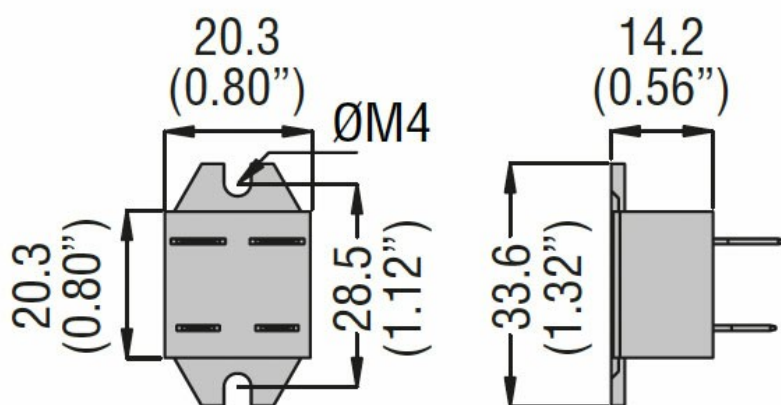
|                                                          |                                    |          |  |
|----------------------------------------------------------|------------------------------------|----------|--|
| Static output type                                       | SCR (silicon controlled rectifier) |          |  |
| Switching mode                                           | Zero crossing                      |          |  |
| Rated operating voltage                                  | VAC                                | 12...280 |  |
| Blocking voltage                                         | V                                  | 600      |  |
| 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       |  |
| Heatsink for use at 40°C and 55°C at rated current AC-51 | K/W                                | ≤1.2     |  |
| Rated operating current AC-53 (motor load) at 40°C       | A                                  | 7        |  |
| Operational current min                                  | A                                  | 0.005    |  |
| Non repetitive surge peak on state current t=10ms        | A                                  | 250      |  |
| Off state leakage current                                | mA                                 | 3        |  |
| On state output voltage drop                             | V                                  | 1.3      |  |
| Critical rate of rise of off-state voltage dv/dt         | V/μs                               | 500      |  |
| Input - Output isolation                                 | V                                  | 4000     |  |
| Input - Output to metal base                             | V                                  | 2500     |  |
| I <sup>2</sup> t                                         | A <sup>2</sup> s                   | 340      |  |

### Terminal characteristics

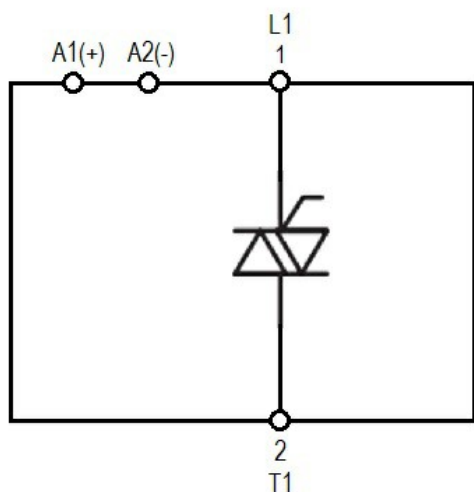
|                                                                               |           |                       |
|-------------------------------------------------------------------------------|-----------|-----------------------|
| Control terminals                                                             | Type      | Faston 4.8x0.8        |
| Conductor section connectable (control terminals) with 1 or 2 wires min...max |           |                       |
| AWG stranded                                                                  | n°        | 16...14 (Faston lug)  |
| Flexible c/w insulated spade lug                                              | mm2       | 0.75...6 (Faston lug) |
| Load terminals                                                                | Type      | Faston 6.3x0.8        |
| Conductor section connectable (load terminals) with 1 or 2 wires min...max    |           |                       |
| AWG stranded                                                                  | n°        | 16...10 (Faston lug)  |
| Flexible c/w insulated spade lug                                              | mm2       | 0.75...6 (Faston lug) |
| Operating position                                                            | allowable | Any                   |

|                       |   |     |    |       |
|-----------------------|---|-----|----|-------|
| Fixing                |   |     |    | Screw |
| Weight                | g |     |    | 13    |
| Ambient conditions    |   |     |    |       |
| Temperature           |   |     |    |       |
| Operating temperature |   | min | °C | -40   |
|                       |   | max | °C | +90   |
|                       |   |     |    |       |
| Storage temperature   |   | min | °C | -40   |
|                       |   | max | °C | +100  |
|                       |   |     |    |       |

## 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

cURus  
VDE

## ETIM classification

EC000066 - Power contactor, AC switching