



### Contact characteristics

|                                                                          |            |                     |
|--------------------------------------------------------------------------|------------|---------------------|
| Number of poles                                                          | Nr.        | 3                   |
| Rated insulation voltage $U_i$ IEC/EN                                    | V          | 690                 |
| Rated impulse withstand voltage $U_{imp}$                                | kV         | 6                   |
| Operational frequency                                                    | min        | Hz 25               |
|                                                                          | max        | Hz 400              |
| IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$ | A          | 56                  |
| Rated operational power AC-6b ( $T \leq 40^\circ\text{C}$ )              | 230V       | kvar 17             |
|                                                                          | 400V       | kvar 30             |
|                                                                          | 440...480V | kvar 33             |
|                                                                          | 690V       | kvar 36             |
| Short-time allowable current for 10s (IEC/EN60947-1)                     | A          | 320                 |
| Protection fuse                                                          | gG (IEC)   | A 63                |
| Making capacity (RMS value)                                              | A          | 380                 |
| Breaking capacity at voltage                                             | 440V       | A 304               |
|                                                                          | 500V       | A 240               |
|                                                                          | 690V       | A 192               |
| Resistance per pole (average value)                                      | m $\Omega$ | 2                   |
| Power dissipation per pole (average value)                               | $I_{th}$   | W 6                 |
| Tightening torque for terminals                                          | min        | Nm 2.5              |
|                                                                          | max        | Nm 3                |
|                                                                          | min        | lbin 1.8            |
|                                                                          | max        | lbin 2.2            |
| Tightening torque for coil terminal                                      | min        | Nm 0.8              |
|                                                                          | max        | Nm 1                |
|                                                                          | min        | lbin 0.59           |
|                                                                          | max        | lbin 0.74           |
| Max number of wires simultaneously connectable                           | Nr.        | 2                   |
| Conductor section                                                        | AWG/Kcmil  |                     |
|                                                                          | max        | 6                   |
| Flexible w/o lug conductor section                                       | min        | mm <sup>2</sup> 2.5 |
|                                                                          | max        | mm <sup>2</sup> 16  |
| Flexible c/w lug conductor section                                       | min        | mm <sup>2</sup> 1   |
|                                                                          | max        | mm <sup>2</sup> 10  |
| Flexible with insulated spade lug conductor section                      |            |                     |

|                                                     |                              |                 |                          |
|-----------------------------------------------------|------------------------------|-----------------|--------------------------|
|                                                     | min                          | mm <sup>2</sup> | 1                        |
|                                                     | max                          | mm <sup>2</sup> | 10                       |
| Power terminal protection according to IEC/EN 60529 |                              |                 | IP20 when properly wired |
| <b>Mechanical features</b>                          |                              |                 |                          |
| Operating position                                  | normal allowable             |                 | Vertical plan ±30°       |
| Fixing                                              |                              |                 | Screw / DIN rail 35mm    |
| Weight                                              |                              | g               | 400                      |
| <b>Operations</b>                                   |                              |                 |                          |
| Mechanical life                                     |                              | cycles          | 20000000                 |
| Electrical life                                     |                              | cycles          | 1400000                  |
| <b>Safety related data</b>                          |                              |                 |                          |
| Performance level B10d according to EN/ISO 13489-1  | rated load                   | cycles          | 1400000                  |
|                                                     | mechanical load              | cycles          | 20000000                 |
| EMC compatibility                                   |                              |                 | yes                      |
| <b>AC coil operating</b>                            |                              |                 |                          |
| Rated AC voltage at 60Hz                            |                              | V               | 220                      |
| AC operating voltage                                |                              |                 |                          |
|                                                     | of 60Hz coil powered at 60Hz |                 |                          |
|                                                     | pick-up                      | min             | %Us 80                   |
|                                                     |                              | max             | %Us 110                  |
|                                                     | drop-out                     | min             | %Us 20                   |
|                                                     |                              | max             | %Us 55                   |
| AC average coil consumption at 20°C                 |                              |                 |                          |
|                                                     | of 60Hz coil powered at 60Hz |                 |                          |
|                                                     | in-rush                      | VA              | 75                       |
|                                                     | holding                      | VA              | 9                        |
| Dissipation at holding ≤20°C 50Hz                   |                              | W               | 2.5                      |
| <b>Max cycles frequency</b>                         |                              |                 |                          |
| Mechanical operation                                |                              | cycles/h        | 3600                     |
| <b>Operating times</b>                              |                              |                 |                          |
| Average time for Us control                         |                              |                 |                          |
|                                                     | in AC                        |                 |                          |
|                                                     | Closing NO                   | min             | ms 8                     |
|                                                     |                              | max             | ms 24                    |
|                                                     | Opening NO                   | min             | ms 5                     |
|                                                     |                              | max             | ms 15                    |
|                                                     | Closing NC                   | min             | ms 9                     |
|                                                     |                              | max             | ms 20                    |
| <b>UL technical data</b>                            |                              |                 |                          |
| Rated operational voltage AC (UL)                   |                              | V               | 600                      |
| General USE                                         |                              |                 |                          |
|                                                     | Contactor                    |                 |                          |
|                                                     | AC current                   | A               | 56                       |
| <b>Ambient conditions</b>                           |                              |                 |                          |

## Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -50 |
| max | °C | 70  |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | 80  |

Max altitude

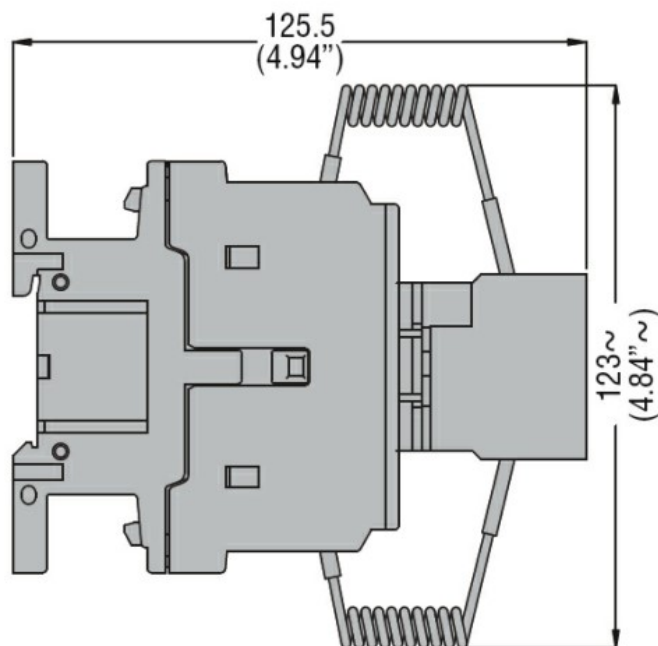
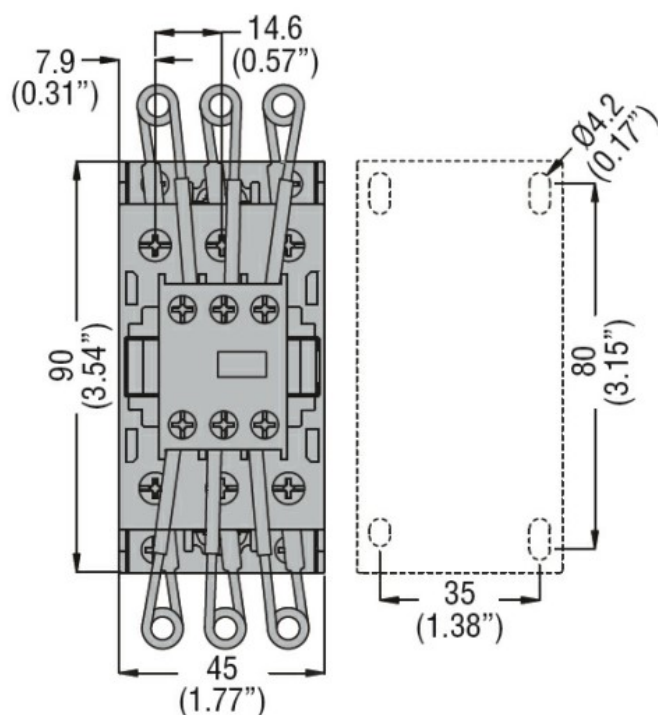
m 3000

## Resistance & Protection

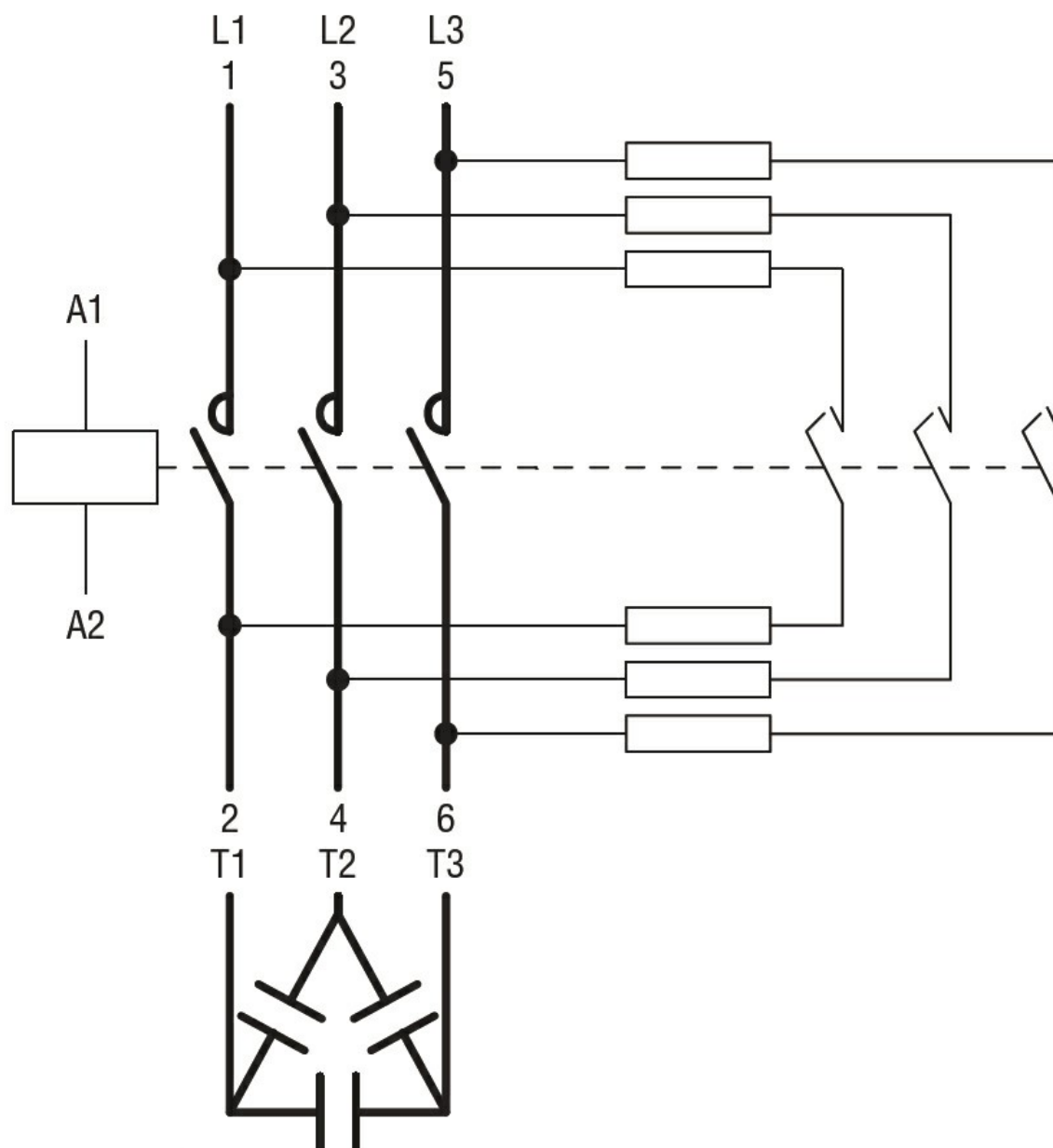
Pollution degree

3

## Dimensions



## Wiring diagrams



## Certifications and compliance

## Compliance

|                        |
|------------------------|
| CSA C22.2 n° 60947-1   |
| CSA C22.2 n° 60947-4-1 |
| IEC/EN/BS 60947-1      |
| IEC/EN/BS 60947-4-1    |
| UL 60947-1             |
| UL 60947-4-1           |

## Certificates

CCC  
cULus  
EAC

## ETIM classification

ETIM 8.0

EC001079 -  
Capacitor  
contactor