



### 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          | 45                  |
| Rated operational power AC-6b ( $T \leq 40^\circ\text{C}$ )              | 230V       | kvar 11             |
|                                                                          | 400V       | kvar 20             |
|                                                                          | 440...480V | kvar 22             |
|                                                                          | 690V       | kvar 25             |
| Short-time allowable current for 10s (IEC/EN60947-1)                     | A          | 210                 |
| Protection fuse                                                          | gG (IEC)   | A 40                |
| Making capacity (RMS value)                                              | A          | 260                 |
| Breaking capacity at voltage                                             | 440V       | A 208               |
|                                                                          | 500V       | A 184               |
|                                                                          | 690V       | A 168               |
| Resistance per pole (average value)                                      | m $\Omega$ | 2                   |
| Power dissipation per pole (average value)                               | $I_{th}$   | W 4                 |
| 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          | 1600000                  |
| <b>Safety related data</b>                          |                            |                 |                          |
| Performance level B10d according to EN/ISO 13489-1  | rated load mechanical load | cycles          | 1600000                  |
|                                                     |                            | cycles          | 20000000                 |
| EMC compatibility                                   |                            |                 | yes                      |
| <b>AC coil operating</b>                            |                            |                 |                          |
| Rated AC voltage at 50/60Hz                         |                            | V               | 110                      |
| AC operating voltage                                |                            |                 |                          |
| of 50/60Hz coil powered at 50Hz                     |                            |                 |                          |
| pick-up                                             | min                        | %Us             | 80                       |
|                                                     | max                        | %Us             | 110                      |
| drop-out                                            | min                        | %Us             | 20                       |
|                                                     | max                        | %Us             | 55                       |
| of 50/60Hz coil powered at 60Hz                     |                            |                 |                          |
| pick-up                                             | min                        | %Us             | 85                       |
|                                                     | max                        | %Us             | 110                      |
| drop-out                                            | min                        | %Us             | 20                       |
|                                                     | max                        | %Us             | 55                       |
| AC average coil consumption at 20°C                 |                            |                 |                          |
| of 50/60Hz coil powered at 50Hz                     | in-rush holding            | VA              | 75                       |
|                                                     |                            | VA              | 9                        |
| of 50/60Hz coil powered at 60Hz                     | in-rush holding            | VA              | 70                       |
|                                                     |                            | VA              | 7                        |
| of 60Hz coil powered at 60Hz                        | in-rush holding            | VA              | 75                       |
|                                                     |                            | 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                        |

|            |     |    |    |
|------------|-----|----|----|
| Opening NO | max | ms | 24 |
|            | min | ms | 5  |
| Closing NC | max | ms | 15 |
|            | min | ms | 9  |
|            | max | ms | 20 |

#### UL technical data

|                                   |   |     |
|-----------------------------------|---|-----|
| Rated operational voltage AC (UL) | V | 600 |
| General USE                       |   |     |

Contactor

|            |   |    |
|------------|---|----|
| AC current | A | 45 |
|------------|---|----|

#### Ambient conditions

Temperature

Operating temperature

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

Storage temperature

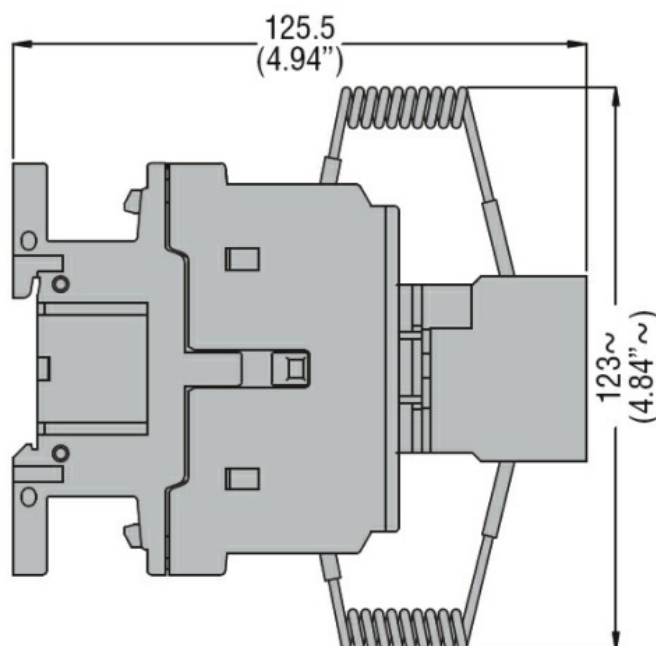
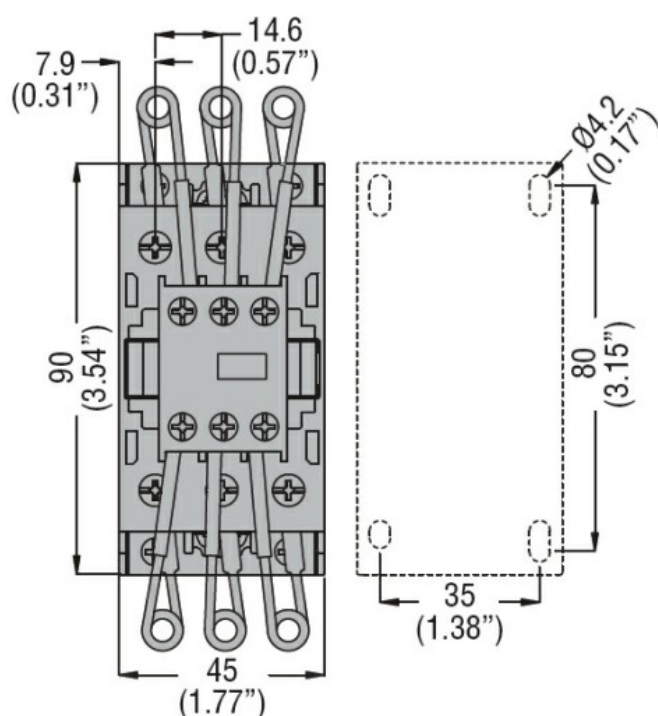
|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | 80  |

|              |   |      |
|--------------|---|------|
| Max altitude | m | 3000 |
|--------------|---|------|

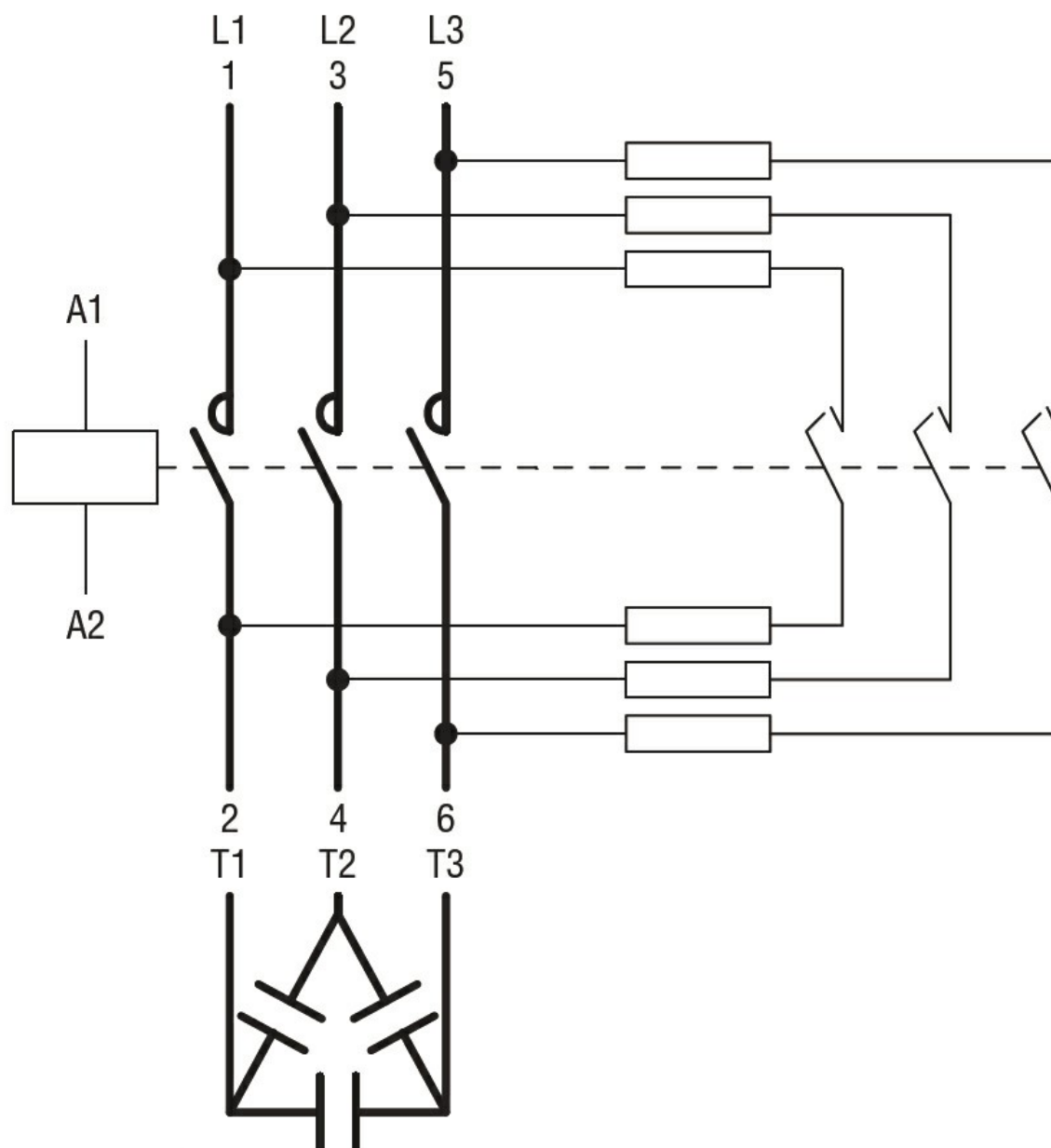
#### Resistance & Protection

|                  |   |
|------------------|---|
| 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