



### Contact characteristics

|                                                                                |                                  |                     |
|--------------------------------------------------------------------------------|----------------------------------|---------------------|
| Number of poles                                                                | Nr.                              | 3                   |
| Rated insulation voltage $U_i$ IEC/EN                                          | V                                | 1000                |
| Rated impulse withstand voltage $U_{imp}$                                      | kV                               | 8                   |
| Operational frequency                                                          | min                              | Hz 25               |
|                                                                                | max                              | Hz 400              |
| IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$       | A                                | 115                 |
| Operational current $I_e$                                                      | AC-1 ( $\leq 55^\circ\text{C}$ ) | A 130               |
| IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series | 400V                             | A 100               |
|                                                                                | 600V                             | A 80                |
|                                                                                | 800V                             | A 65                |
|                                                                                | 1000V                            | A 60                |
| Short-time allowable current for 10s (IEC/EN60947-1)                           | A                                | 640                 |
| Protection fuse                                                                | gG (IEC)                         | A 125               |
|                                                                                | aM (IEC)                         | A 80                |
| Resistance per pole (average value)                                            | m $\Omega$                       | 0.6                 |
| Power dissipation per pole (average value)                                     | $I_{th}$                         | W 7.9               |
| Tightening torque for terminals                                                | min                              | Nm 4                |
|                                                                                | max                              | Nm 5                |
|                                                                                | min                              | lbin 2.95           |
|                                                                                | max                              | lbin 3.69           |
| Tightening torque for coil terminal                                            | min                              | Nm 0.8              |
|                                                                                | max                              | Nm 1                |
|                                                                                | min                              | lbin 0.8            |
|                                                                                | max                              | lbin 0.74           |
| Max number of wires simultaneously connectable                                 | Nr.                              | 2                   |
| Conductor section                                                              | AWG/Kcmil                        |                     |
|                                                                                | max                              | 2                   |
| Flexible w/o lug conductor section                                             | min                              | mm <sup>2</sup> 1.5 |
|                                                                                | max                              | mm <sup>2</sup> 35  |
| Flexible c/w lug conductor section                                             | min                              | mm <sup>2</sup> 1.5 |
|                                                                                | max                              | mm <sup>2</sup> 35  |
| Power terminal protection according to IEC/EN 60529                            |                                  | IP20 front          |

### Mechanical features

Operating position

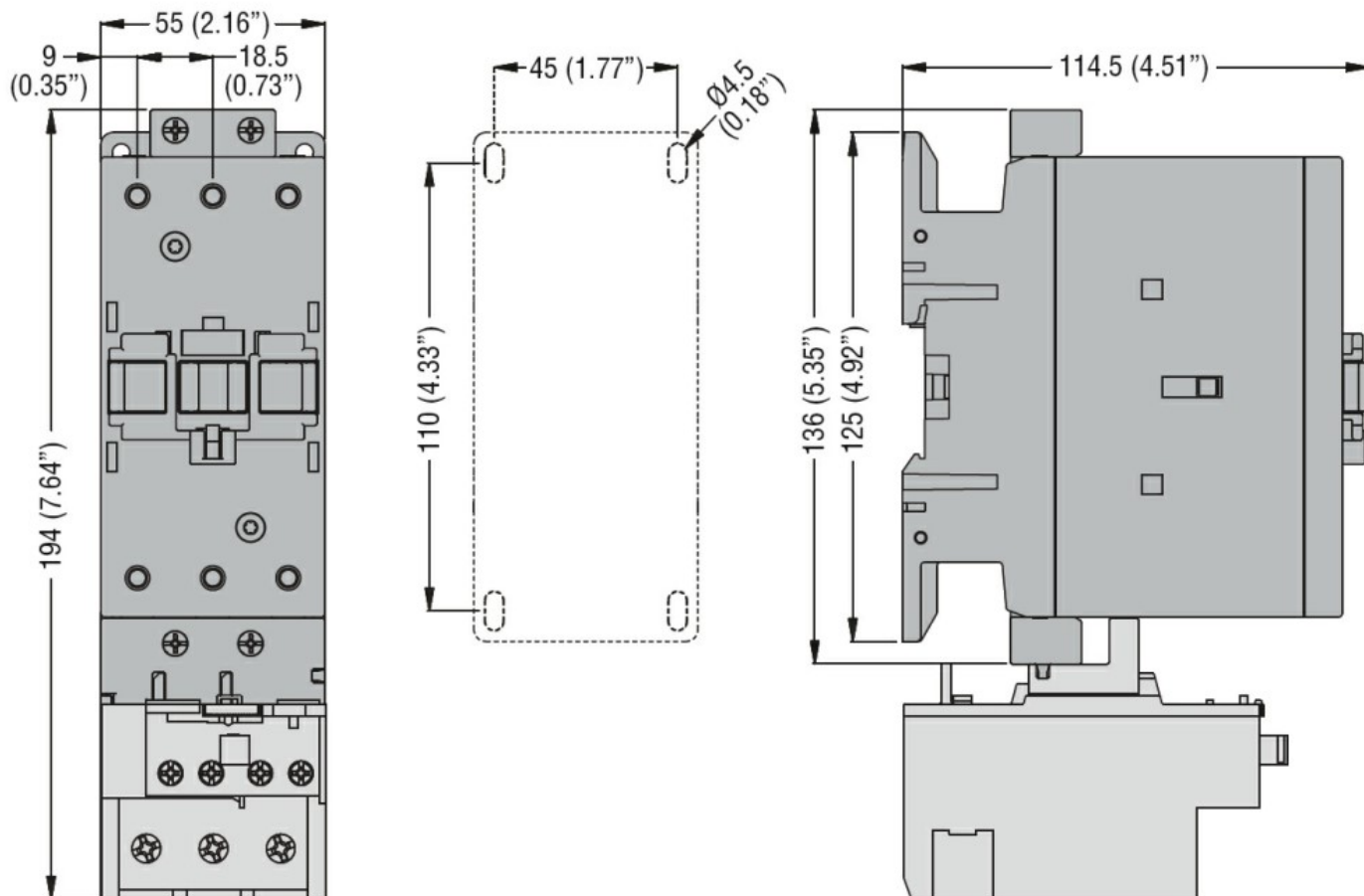
|                                                    |                     |                          |
|----------------------------------------------------|---------------------|--------------------------|
|                                                    | normal<br>allowable | Vertical plan<br>±30°    |
| Fixing                                             |                     | Screw / DIN rail<br>35mm |
| Weight                                             | g                   | 1240                     |
| <b>Operations</b>                                  |                     |                          |
| Mechanical life                                    | cycles              | 15000000                 |
| <b>Safety related data</b>                         |                     |                          |
| Performance level B10d according to EN/ISO 13489-1 |                     |                          |
|                                                    | mechanical load     | cycles 15000000          |
| EMC compatibility                                  |                     | yes                      |
| <b>AC coil operating</b>                           |                     |                          |
| Rated AC voltage at 60Hz                           | V                   | 575                      |
| 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 210                   |
|                                                    | holding             | VA 15                    |
| Dissipation at holding ≤20°C 50Hz                  | W                   | 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 12                    |
|                                                    | max                 | ms 28                    |
| Opening NO                                         |                     |                          |
|                                                    | min                 | ms 8                     |
|                                                    | max                 | ms 22                    |
| in DC                                              |                     |                          |
| Closing NO                                         |                     |                          |
|                                                    | min                 | ms 40                    |
|                                                    | max                 | ms 85                    |
| Opening NO                                         |                     |                          |
|                                                    | min                 | ms 20                    |
|                                                    | max                 | ms 55                    |
| <b>UL technical data</b>                           |                     |                          |
| Rated operational voltage AC (UL)                  | V                   | 600                      |
| General USE                                        |                     |                          |
| Contactor                                          |                     |                          |
|                                                    | AC current          | A 115                    |
| 4 poles in series DC1                              |                     |                          |
|                                                    | 600V                | A 100                    |
| <b>Ambient conditions</b>                          |                     |                          |
| Temperature                                        |                     |                          |
| Operating temperature                              |                     |                          |

|                     |     |    |      |
|---------------------|-----|----|------|
| Storage temperature | min | °C | -50  |
|                     | max | °C | 70   |
| Max altitude        | min | °C | -60  |
|                     | max | °C | 80   |
|                     |     | m  | 3000 |

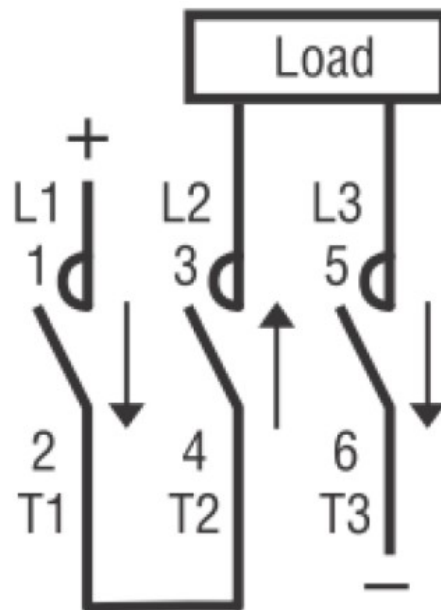
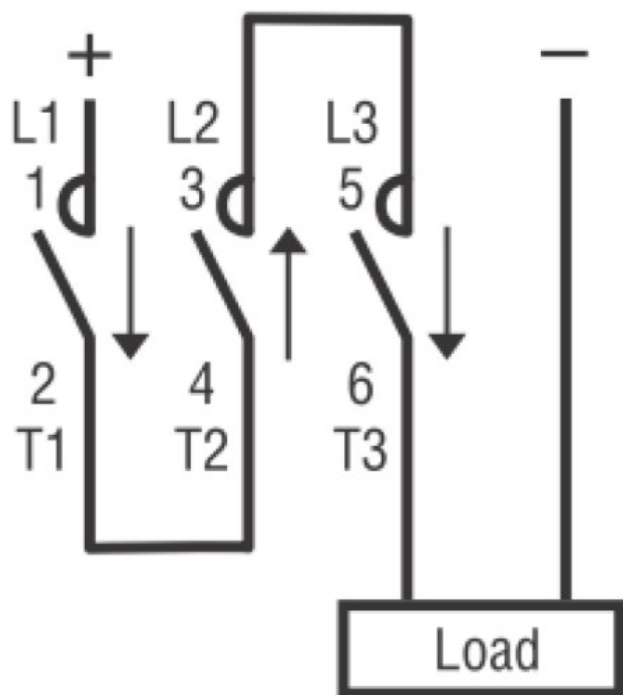
**Resistance & Protection**

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

#### ETIM classification

ETIM 8.0

EC002552 -  
Power contactor,  
DC switching