



### Contact characteristics

|                                                                    |            |                     |
|--------------------------------------------------------------------|------------|---------------------|
| Number of poles                                                    | Nr.        | 3                   |
| Rated insulation voltage $U_i$ IEC/EN                              | V          | 690                 |
| Rated impulse withstand voltage $U_{imp}$                          | kV         | 8                   |
| Operational frequency                                              | min        | Hz 25               |
|                                                                    | max        | Hz 400              |
| IEC Conventional free air thermal current $I_{th} \leq 40^\circ C$ | A          | 100                 |
| Rated operational power AC-6b ( $T \leq 40^\circ C$ )              | 230V       | kvar 26             |
|                                                                    | 400V       | kvar 45             |
|                                                                    | 440...480V | kvar 50             |
|                                                                    | 690V       | kvar 56             |
| Short-time allowable current for 10s (IEC/EN60947-1)               | A          | 640                 |
| Protection fuse                                                    | gG (IEC)   | A 100               |
| Making capacity (RMS value)                                        | A          | 650                 |
| Breaking capacity at voltage                                       | 440V       | A 520               |
|                                                                    | 500V       | A 425               |
|                                                                    | 690V       | A 376               |
| Resistance per pole (average value)                                | m $\Omega$ | 0.8                 |
| Power dissipation per pole (average value)                         | $I_{th}$   | W 8                 |
| Tightening torque for terminals                                    | min        | Nm 4                |
|                                                                    | max        | Nm 5                |
|                                                                    | min        | Ibin 2.95           |
|                                                                    | max        | Ibin 3.69           |
| Tightening torque for coil terminal                                | min        | Nm 0.8              |
|                                                                    | max        | Nm 1                |
|                                                                    | min        | Ibin 0.8            |
|                                                                    | max        | Ibin 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 | 1090 |
|--------|---|------|

## Operations

|                 |        |          |
|-----------------|--------|----------|
| Mechanical life | cycles | 15000000 |
| Electrical life | cycles | 400000   |

## Safety related data

Performance level B10d according to EN/ISO 13489-1

|                   |                               |        |          |
|-------------------|-------------------------------|--------|----------|
|                   | rated load<br>mechanical load | cycles | 400000   |
|                   |                               | cycles | 15000000 |
| EMC compatibility |                               |        | yes      |

## AC coil operating

|                          |   |    |
|--------------------------|---|----|
| Rated AC voltage at 60Hz | V | 48 |
|--------------------------|---|----|

### 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 |
|-----------------------------------|---|---|

## Max cycles frequency

|                      |          |      |
|----------------------|----------|------|
| Mechanical operation | cycles/h | 3600 |
|----------------------|----------|------|

## Operating times

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 |

## UL technical data

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

General USE

Contactor

|            |   |     |
|------------|---|-----|
| AC current | A | 100 |
|------------|---|-----|

## Ambient conditions

Temperature

Operating temperature

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

Storage temperature

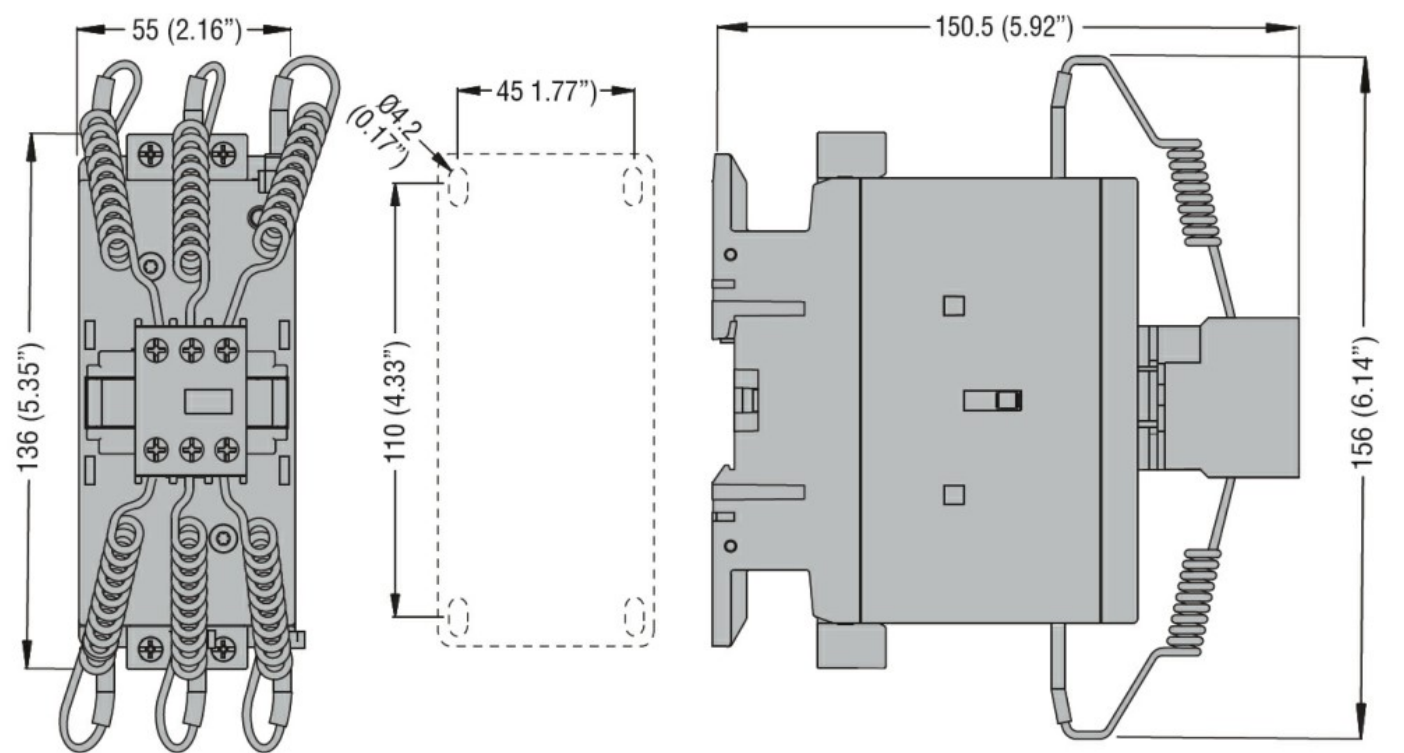
|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | 80  |

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

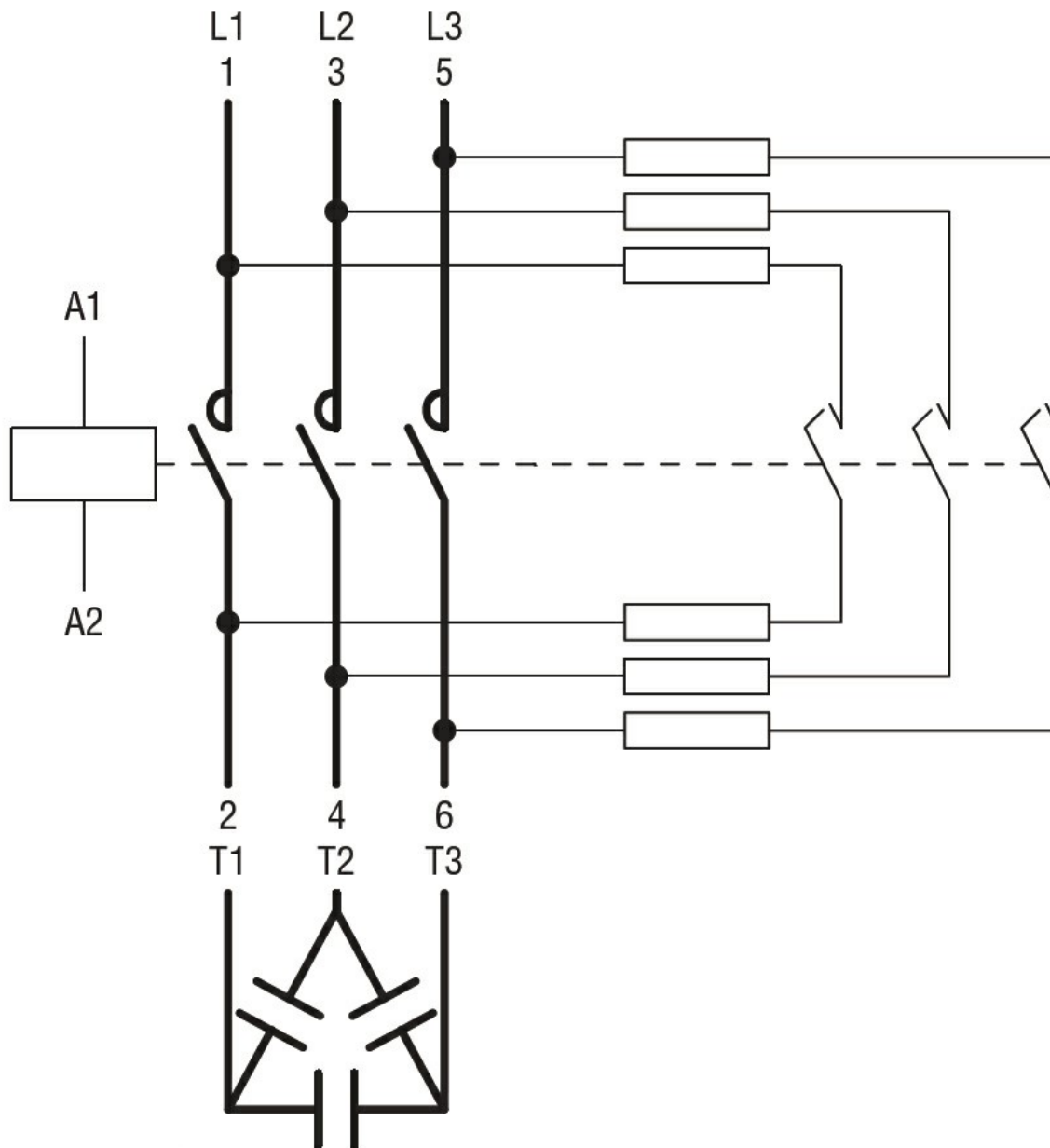
Resistance & Protection

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

## ETIM classification

ETIM 8.0

EC001079 -  
Capacitor  
contactor