



### 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 $I_{th} \leq 40^\circ\text{C}$ | A          | 160                 |
| Rated operational power AC-6b ( $T \leq 40^\circ\text{C}$ )              | 230V       | kvar 45             |
|                                                                          | 400V       | kvar 75             |
|                                                                          | 440...480V | kvar 85             |
|                                                                          | 690V       | kvar 135            |
| Short-time allowable current for 10s (IEC/EN60947-1)                     | A          | 920                 |
| Protection fuse                                                          | gG (IEC)   | A 160               |
| Making capacity (RMS value)                                              | A          | 1500                |
| Breaking capacity at voltage                                             | 440V       | A 1200              |
|                                                                          | 500V       | A 850               |
|                                                                          | 690V       | A 905               |
| Resistance per pole (average value)                                      | mΩ         | 0.45                |
| Power dissipation per pole (average value)                               | $I_{th}$   | W 11.5              |
| Tightening torque for terminals                                          | min        | Nm 6                |
|                                                                          | max        | Nm 7                |
|                                                                          | min        | lbin 4.4            |
|                                                                          | max        | lbin 5.2            |
| 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        | 2/0                 |
| Flexible w/o lug conductor section                                       | min        | mm <sup>2</sup> 1.5 |
|                                                                          | max        | mm <sup>2</sup> 70  |
| Flexible c/w lug conductor section                                       | min        | mm <sup>2</sup> 1.5 |
|                                                                          | max        | mm <sup>2</sup> 70  |
| 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 | 2095 |
|--------|---|------|

## Operations

|                 |        |          |
|-----------------|--------|----------|
| Mechanical life | cycles | 15000000 |
| Electrical life | cycles | 1200000  |

## Safety related data

Performance level B10d according to EN/ISO 13489-1

|                   |                               |        |          |
|-------------------|-------------------------------|--------|----------|
|                   | rated load<br>mechanical load | cycles | 1200000  |
|                   |                               | cycles | 15000000 |
| EMC compatibility |                               |        | yes      |

## AC coil operating

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

## Max cycles frequency

|                      |          |      |
|----------------------|----------|------|
| Mechanical operation | cycles/h | 1500 |
|----------------------|----------|------|

## Operating times

Average time for Us control

in AC

Closing NO

|     |    |    |
|-----|----|----|
| min | ms | 16 |
| max | ms | 32 |

Opening NO

|     |    |    |
|-----|----|----|
| min | ms | 9  |
| max | ms | 24 |

## UL technical data

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

General USE

Contactor

|            |   |     |
|------------|---|-----|
| AC current | A | 160 |
|------------|---|-----|

## Ambient conditions

Temperature

Operating temperature

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

Storage temperature

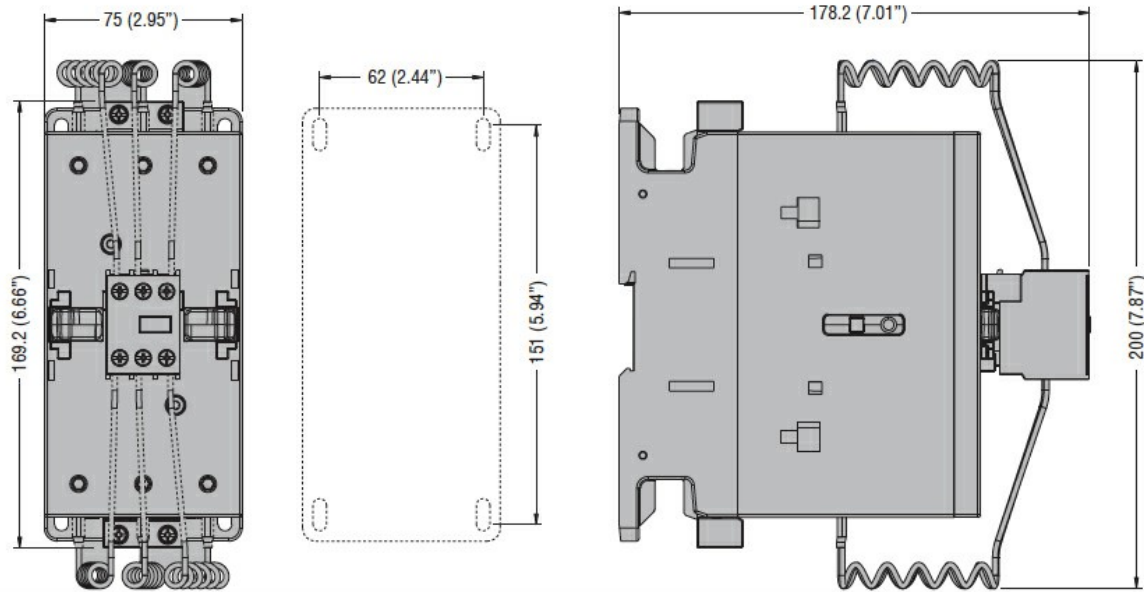
|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | 80  |

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

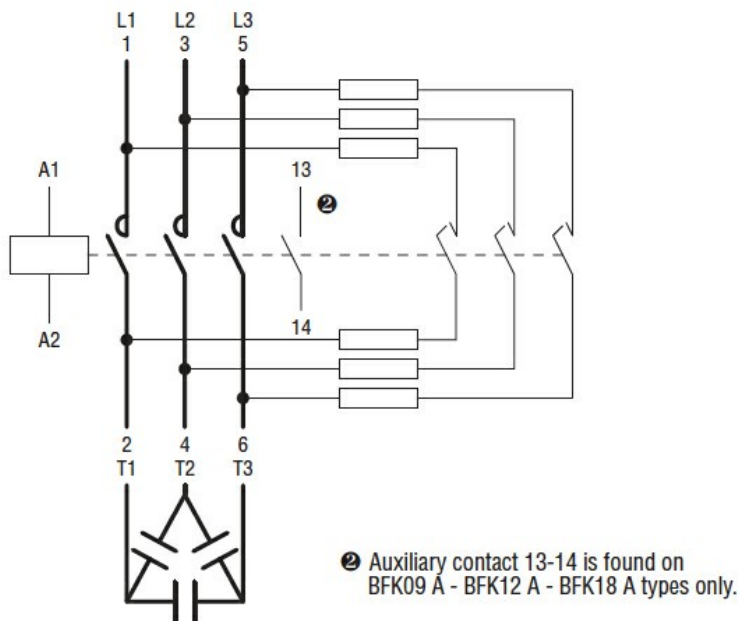
## Resistance & Protection

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