



### 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          | 25                |
| Rated operational power AC-6b ( $T \leq 40^\circ\text{C}$ )              | 230V       | kvar 4.5          |
|                                                                          | 400V       | kvar 7.5          |
|                                                                          | 440...480V | kvar 9            |
|                                                                          | 690V       | kvar 10           |
| Short-time allowable current for 10s (IEC/EN60947-1)                     | A          | 150               |
| Protection fuse                                                          | gG (IEC)   | A 16              |
| Making capacity (RMS value)                                              | A          | 90                |
| Breaking capacity at voltage                                             | 440V       | A 72              |
|                                                                          | 500V       | A 72              |
|                                                                          | 690V       | A 71              |
| Resistance per pole (average value)                                      | m $\Omega$ | 2.5               |
| Power dissipation per pole (average value)                               | $I_{th}$   | W 1.6             |
| Tightening torque for terminals                                          | min        | Nm 1.5            |
|                                                                          | max        | Nm 1.8            |
|                                                                          | min        | lbin 1.1          |
|                                                                          | max        | lbin 1.5          |
| 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        | 10                |
| Flexible w/o lug conductor section                                       | min        | mm <sup>2</sup> 1 |
|                                                                          | max        | mm <sup>2</sup> 6 |
| Flexible c/w lug conductor section                                       | min        | mm <sup>2</sup> 1 |
|                                                                          | max        | mm <sup>2</sup> 4 |
| Flexible with insulated spade lug conductor section                      |            |                   |

|                                                     |                  |                 |                          |
|-----------------------------------------------------|------------------|-----------------|--------------------------|
|                                                     | min              | mm <sup>2</sup> | 1                        |
|                                                     | max              | mm <sup>2</sup> | 4                        |
| 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               | 420                      |
| <b>Auxiliary contact characteristics</b>            |                  |                 |                          |
| Thermal current I <sub>th</sub>                     |                  | A               | 10                       |
| IEC/EN 60947-5-1 designation                        |                  |                 | A600 - P600              |
| Operating current AC15                              | 230V             | A               | 3                        |
|                                                     | 400V             | A               | 1.9                      |
|                                                     | 500V             | A               | 1.4                      |
| Operating current DC12                              | 110V             | A               | 5.7                      |
| Operating current DC13                              | 24V              | A               | 5.7                      |
|                                                     | 48V              | A               | 2.9                      |
|                                                     | 60V              | A               | 2.3                      |
|                                                     | 110V             | A               | 1.25                     |
|                                                     | 125V             | A               | 1.1                      |
|                                                     | 220V             | A               | 0.6                      |
|                                                     | 600V             | A               | 0.1                      |
| <b>Operations</b>                                   |                  |                 |                          |
| Mechanical life                                     |                  | cycles          | 20000000                 |
| Electrical life                                     |                  | cycles          | 400000                   |
| <b>Safety related data</b>                          |                  |                 |                          |
| Performance level B10d according to EN/ISO 13489-1  | rated load       | cycles          | 400000                   |
|                                                     | mechanical load  | cycles          | 20000000                 |
| EMC compatibility                                   |                  |                 | yes                      |
| <b>AC coil operating</b>                            |                  |                 |                          |
| Rated AC voltage at 50/60Hz                         |                  | V               | 24                       |
| 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                       |
| <b>AC average coil consumption at 20°C</b>          |                  |                 |                          |

of 50/60Hz coil powered at 50Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 75 |
| holding | VA | 9  |

of 50/60Hz coil powered at 60Hz

|         |    |     |
|---------|----|-----|
| in-rush | VA | 70  |
| holding | VA | 6.5 |

of 60Hz coil powered at 60Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 75 |
| holding | VA | 9  |

|                                   |   |     |
|-----------------------------------|---|-----|
| Dissipation at holding ≤20°C 50Hz | W | 2.5 |
|-----------------------------------|---|-----|

#### Max cycles frequency

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

#### Operating times

Average time for Us control

in AC

Closing NO

|     |    |    |
|-----|----|----|
| min | ms | 8  |
| max | ms | 24 |

Opening NO

|     |    |    |
|-----|----|----|
| min | ms | 10 |
| max | ms | 20 |

Closing NC

|     |    |    |
|-----|----|----|
| min | ms | 14 |
| max | ms | 28 |

#### UL technical data

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

General USE

Contactor

|            |   |    |
|------------|---|----|
| AC current | A | 25 |
|------------|---|----|

Auxiliary contacts

|            |   |     |
|------------|---|-----|
| AC voltage | V | 600 |
| AC current | A | 10  |
| DC voltage | V | 250 |
| DC current | A | 1   |

|                                                      |             |
|------------------------------------------------------|-------------|
| Contact rating of auxiliary contacts according to UL | A600 - P600 |
|------------------------------------------------------|-------------|

#### Ambient conditions

Temperature

Operating temperature

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

Storage temperature

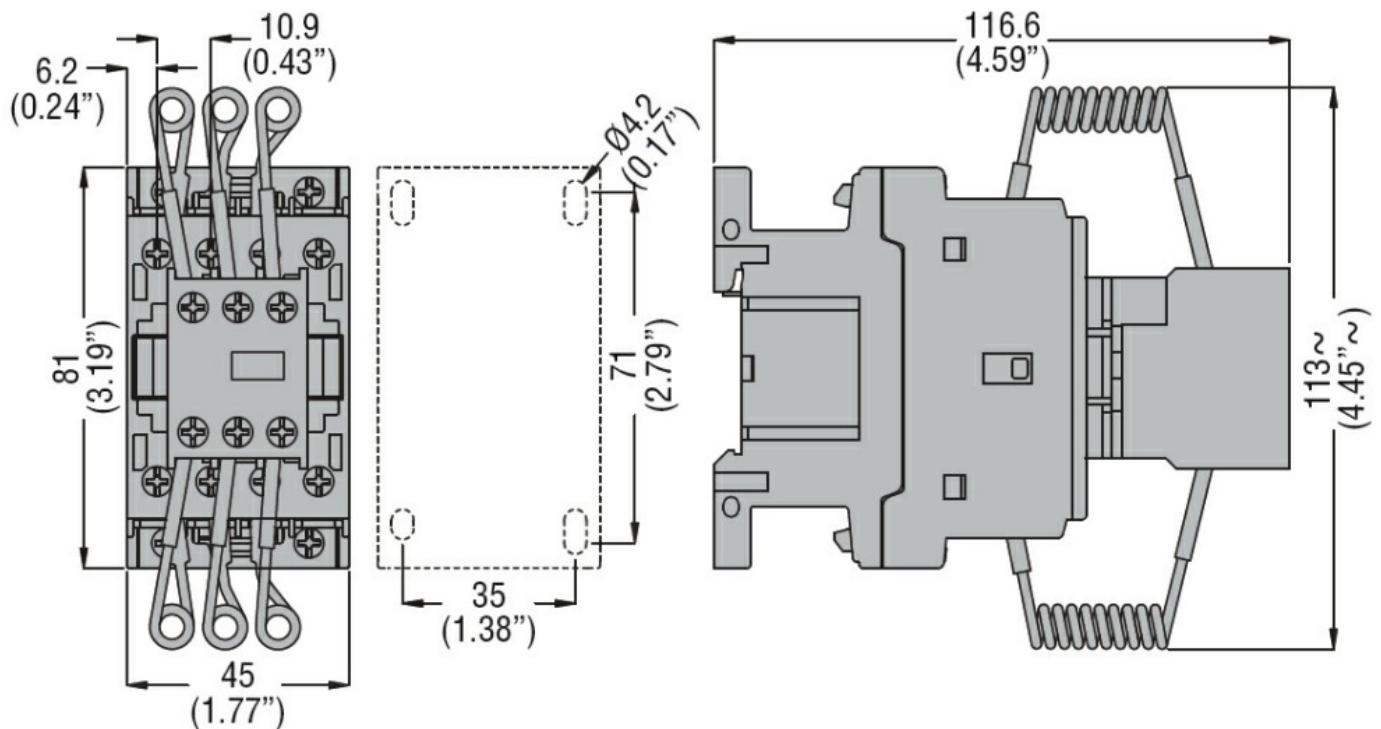
|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | 80  |

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

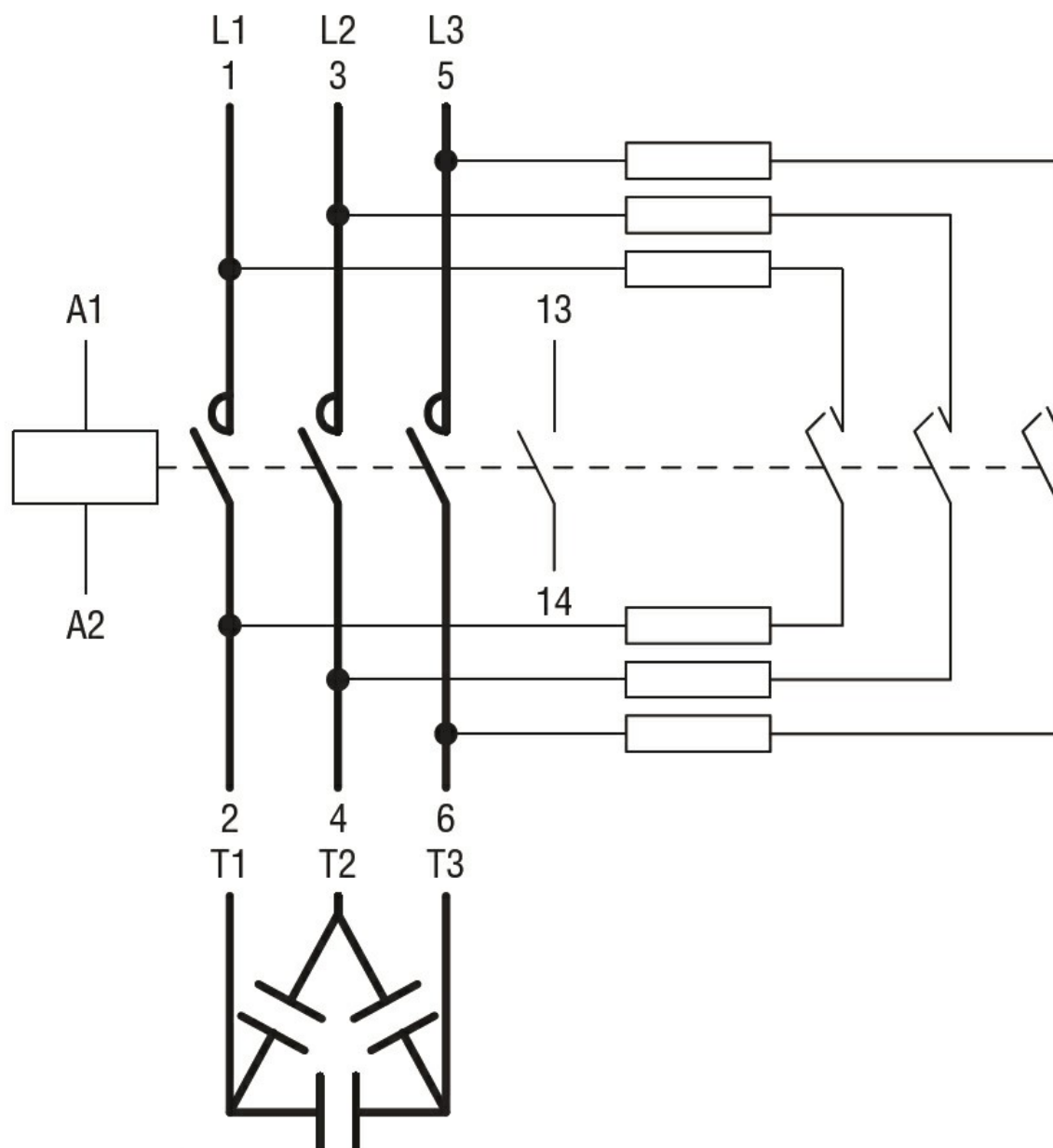
#### Resistance & Protection

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