



#### Contact characteristics

|                                                                    |           |        |
|--------------------------------------------------------------------|-----------|--------|
| Number of poles                                                    | Nr.       | 4      |
| 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 $I_{th} \leq 40^\circ C$ | A         | 10     |
| Short-time allowable current for 10s (IEC/EN60947-1)               | A         | 0      |
| Protection fuse                                                    |           |        |
|                                                                    | gG (IEC)  | A 16   |
| Conductor section                                                  |           |        |
|                                                                    | AWG/Kcmil |        |
|                                                                    | max       | 12     |

#### Mechanical features

|                    |                     |                                 |
|--------------------|---------------------|---------------------------------|
| Operating position |                     |                                 |
|                    | normal<br>allowable | Vertical plan<br>$\pm 30^\circ$ |
| Fixing             |                     | Screw / DIN rail<br>35mm        |
| Weight             | g                   | 180                             |

#### Auxiliary contact characteristics

|                              |      |             |
|------------------------------|------|-------------|
| Thermal current $I_{th}$     | A    | 10          |
| IEC/EN 60947-5-1 designation |      | A600 - Q600 |
| Operating current AC15       |      |             |
|                              | 230V | A 3         |
|                              | 400V | A 1.9       |
|                              | 500V | A 1.4       |
| Operating current DC12       |      |             |
|                              | 110V | A 2.9       |
| Operating current DC13       |      |             |
|                              | 24V  | A 2.9       |
|                              | 48V  | A 1.4       |
|                              | 60V  | A 1.1       |
|                              | 125V | A 0.3       |
|                              | 220V | A 0.1       |
|                              | 600V | A 0.6       |

#### Operations

|                 |        |          |
|-----------------|--------|----------|
| Mechanical life | cycles | 20000000 |
|-----------------|--------|----------|

#### Safety related data

|                                                    |                 |        |          |
|----------------------------------------------------|-----------------|--------|----------|
| Performance level B10d according to EN/ISO 13489-1 | mechanical load | cycles | 20000000 |
| EMC compatibility                                  |                 |        | yes      |

#### AC coil operating

|                          |   |     |
|--------------------------|---|-----|
| Rated AC voltage at 60Hz | V | 220 |
|--------------------------|---|-----|

## AC operating voltage

of 60Hz coil powered at 60Hz  
pick-up

|     |     |     |
|-----|-----|-----|
| min | %Us | 75  |
| max | %Us | 115 |

drop-out

|     |     |    |
|-----|-----|----|
| min | %Us | 20 |
| max | %Us | 55 |

## AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 30 |
| holding | VA | 4  |

of 50/60Hz coil powered at 60Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 25 |
| holding | VA | 3  |

of 60Hz coil powered at 60Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 30 |
| holding | VA | 4  |

## Dissipation at holding ≤20°C 50Hz

|   |      |
|---|------|
| W | 0.95 |
|---|------|

## Max cycles frequency

## Mechanical operation

cycles/h 3600

## Operating times

### Average time for Us control

in AC

Closing NO

|     |    |    |
|-----|----|----|
| min | ms | 12 |
| max | ms | 21 |

Opening NO

|     |    |    |
|-----|----|----|
| min | ms | 9  |
| max | ms | 18 |

Closing NC

|     |    |    |
|-----|----|----|
| min | ms | 17 |
| max | ms | 26 |

Opening NC

|     |    |    |
|-----|----|----|
| min | ms | 7  |
| max | ms | 17 |

in DC

Closing NO

|     |    |    |
|-----|----|----|
| min | ms | 18 |
| max | ms | 25 |

Opening NO

|     |    |   |
|-----|----|---|
| min | ms | 2 |
| max | ms | 3 |

Closing NC

|     |    |   |
|-----|----|---|
| min | ms | 3 |
| max | ms | 5 |

Opening NC

|     |    |    |
|-----|----|----|
| min | ms | 11 |
| max | ms | 17 |

## UL technical data

### Rated operational voltage AC (UL)

|   |     |
|---|-----|
| V | 600 |
|---|-----|

### Contact rating of auxiliary contacts according to UL

A600 - Q600

## Ambient conditions

### Temperature

Operating temperature

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

Storage temperature

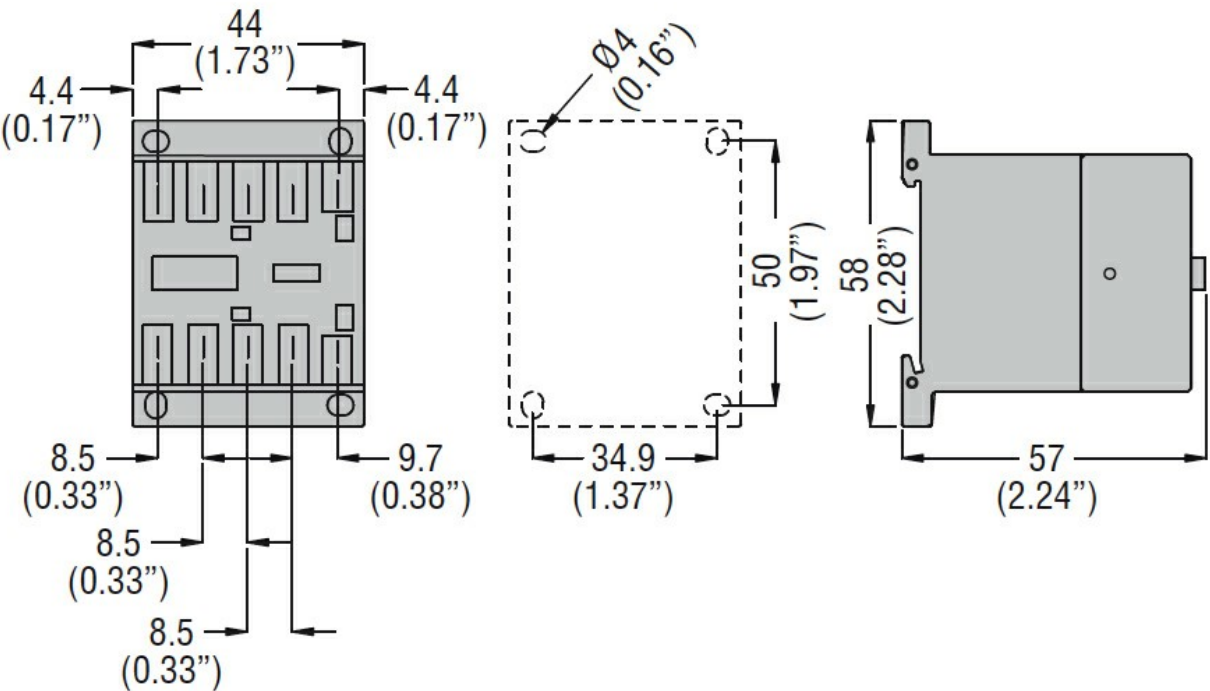
|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | +80 |

Max altitude m 3000

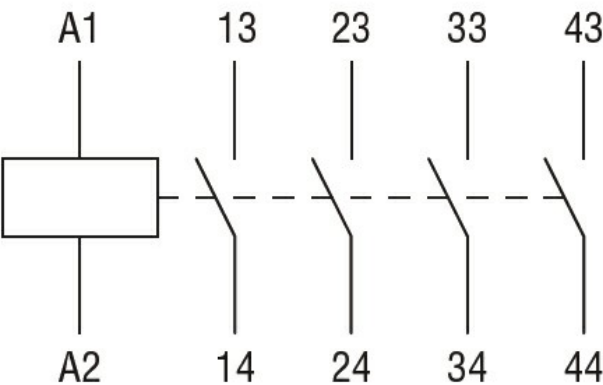
Resistance & Protection

Pollution degree 3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

- CSA C22.2 n° 60947-1
- CSA C22.2 n° 60947-5-1
- IEC/EN 60947-1
- IEC/EN 60947-5-1
- UL 60947-1
- UL 60947-5-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000196 -  
Contactor relay