



#### 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 $I_{th} \leq 40^\circ\text{C}$ | 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 allowable | Vertical plan $\pm 30^\circ$ |
| Fixing             |                  | Screw / DIN rail 35mm        |
| Weight             | g                | 225                          |

#### 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

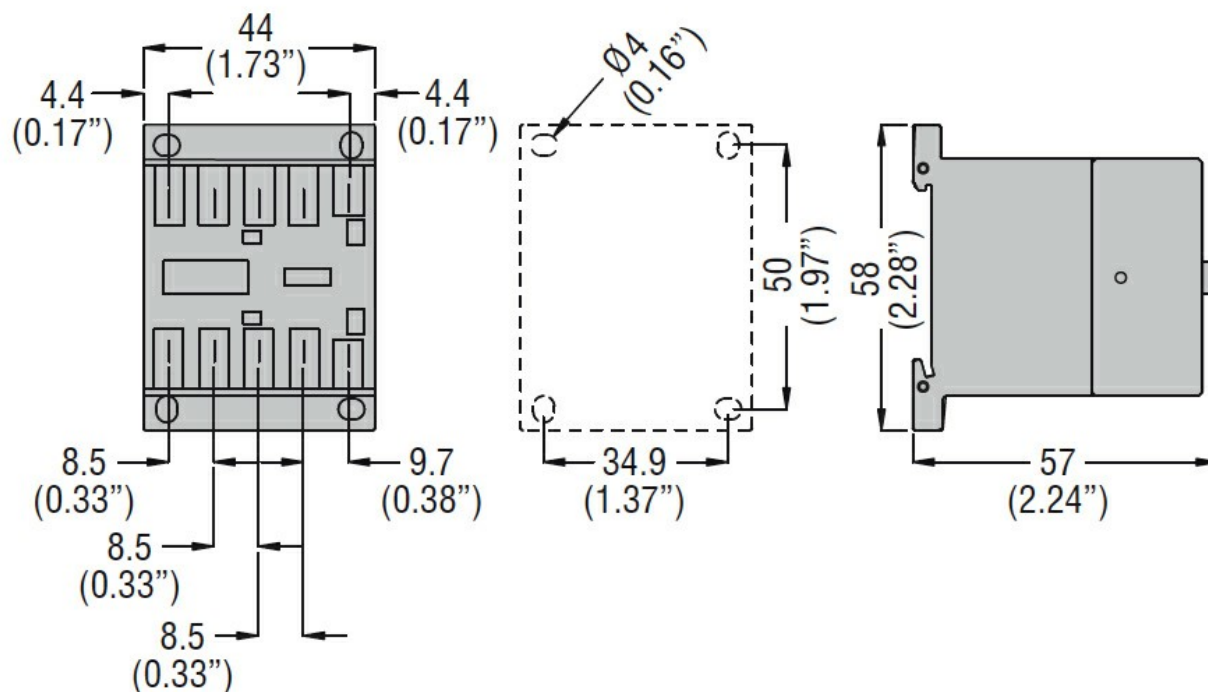
|                                                    |                 |        |          |
|----------------------------------------------------|-----------------|--------|----------|
| Performance level B10d according to EN/ISO 13489-1 | mechanical load | cycles | 20000000 |
| EMC compatibility  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

#### DC coil operating

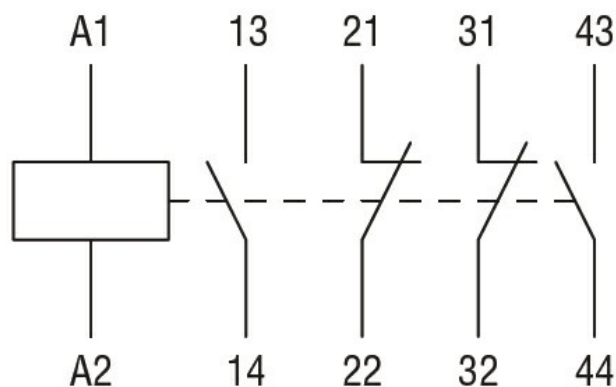
|                          |   |    |
|--------------------------|---|----|
| DC rated control voltage | V | 48 |
|--------------------------|---|----|

|                                                      |            |            |             |    |    |
|------------------------------------------------------|------------|------------|-------------|----|----|
| DC operating voltage                                 |            |            |             |    |    |
| pick-up                                              | min        | %Us        | 75          |    |    |
|                                                      | max        | %Us        | 115         |    |    |
| drop-out                                             | min        | %Us        | 10          |    |    |
|                                                      | max        | %Us        | 25          |    |    |
| Average coil consumption ≤20°C                       |            |            |             |    |    |
|                                                      | in-rush    | W          | 3.2         |    |    |
|                                                      | holding    | W          | 3.2         |    |    |
| 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