



### 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    | Vertical plan            |
|                    | allowable | $\pm 30^\circ$           |
| Fixing             |           | Screw / DIN rail<br>35mm |
| Weight             | g         | 212                      |

### 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 | 24 |
|--------------------------|---|----|

|                      |     |     |     |
|----------------------|-----|-----|-----|
| DC operating voltage |     |     |     |
| pick-up              | min | %Us | 75  |
|                      | max | %Us | 115 |
| drop-out             |     |     |     |
|                      | min | %Us | 10  |
|                      | max | %Us | 25  |

|                                                    |         |   |     |
|----------------------------------------------------|---------|---|-----|
| Average coil consumption $\leq 20^{\circ}\text{C}$ |         |   |     |
|                                                    | 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 | $^{\circ}\text{C}$ | -50 |
|                       | max | $^{\circ}\text{C}$ | +70 |
| Storage temperature   |     |                    |     |
|                       | min | $^{\circ}\text{C}$ | -60 |
|                       | max | $^{\circ}\text{C}$ | +80 |

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

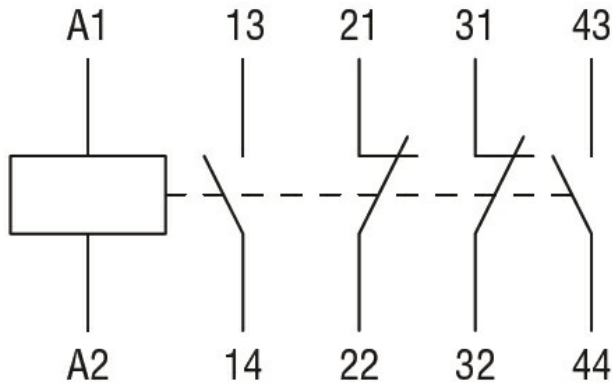
**Resistance & Protection**

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