



### 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                       |
| Operational current $I_e$                                                | AC-1 ( $\leq 55^\circ\text{C}$ ) | A 0                      |
| Protection fuse                                                          | gG (IEC)                         | A 25                     |
| 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 |

### Mechanical features

|                    |                  |                              |
|--------------------|------------------|------------------------------|
| Operating position | normal allowable | Vertical plan $\pm 30^\circ$ |
| Fixing             |                  | Screw / DIN rail 35mm        |
| Weight             | g                | 350                          |

### Auxiliary contact characteristics

|                                                    |                 |          |             |
|----------------------------------------------------|-----------------|----------|-------------|
| 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        | 0.55        |
|                                                    | 600V            | A        | 0.2         |
| <b>Operations</b>                                  |                 |          |             |
| Mechanical life                                    |                 | cycles   | 20000000    |
| <b>Safety related data</b>                         |                 |          |             |
| Performance level B10d according to EN/ISO 13489-1 | mechanical load | cycles   | 20000000    |
| EMC compatibility                                  |                 |          | yes         |
| <b>AC coil operating</b>                           |                 |          |             |
| Rated AC voltage at 60Hz                           |                 | V        | 220         |
| 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          |
| AC average coil consumption at 20°C                |                 |          |             |
| of 60Hz coil powered at 60Hz                       | in-rush         | VA       | 75          |
|                                                    | holding         | VA       | 9           |
| Dissipation at holding ≤20°C 50Hz                  |                 | W        | 2.5         |
| <b>Max cycles frequency</b>                        |                 |          |             |
| Mechanical operation                               |                 | cycles/h | 3600        |
| <b>Operating times</b>                             |                 |          |             |
| Average time for U <sub>s</sub> 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          |
| Opening NC                                         | min             | ms       | 7           |
|                                                    | max             | ms       | 18          |

### UL technical data

|                                                      |   |             |
|------------------------------------------------------|---|-------------|
| Rated operational voltage AC (UL)                    | V | 600         |
| General USE                                          |   |             |
| Auxiliary contacts                                   |   |             |
| AC current                                           | A | 10          |
| Contact rating of auxiliary contacts according to UL |   | A600 - P600 |

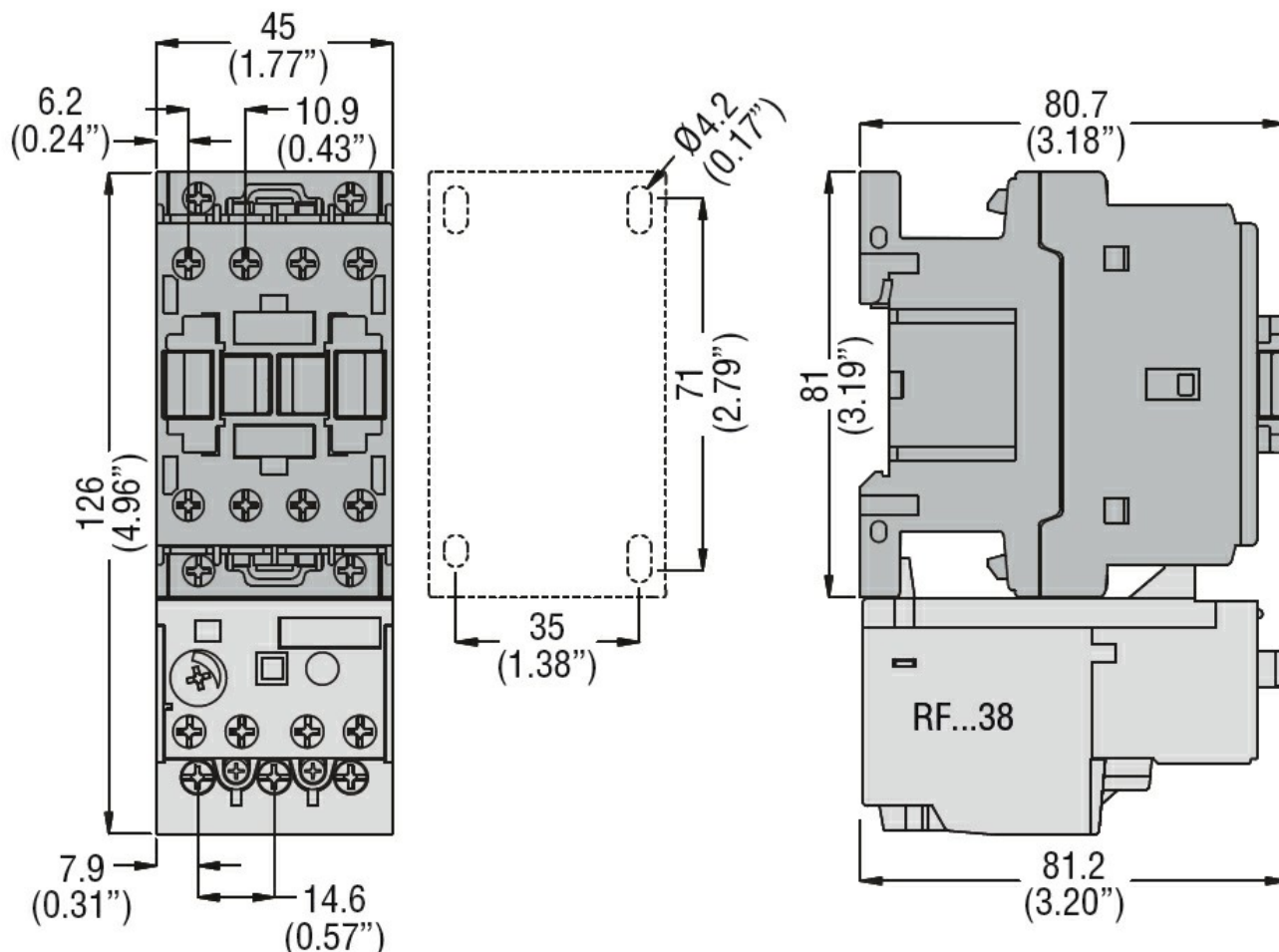
### Ambient conditions

|                       |     |    |      |
|-----------------------|-----|----|------|
| Temperature           |     |    |      |
| Operating temperature |     |    |      |
|                       | min | °C | -50  |
|                       | max | °C | 70   |
| Storage temperature   |     |    |      |
|                       | min | °C | -60  |
|                       | max | °C | 80   |
| Max altitude          | m   |    | 3000 |

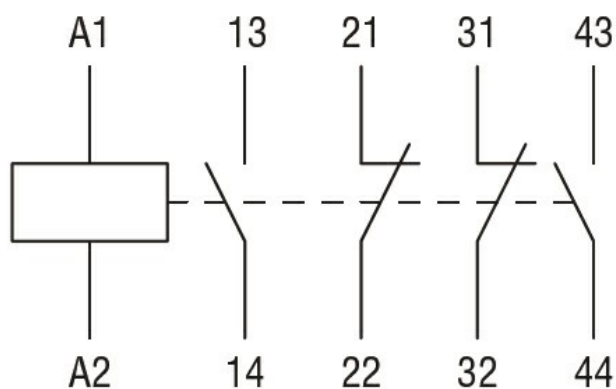
### Resistance & Protection

|                  |  |   |
|------------------|--|---|
| Pollution degree |  | 3 |
|------------------|--|---|

### Dimensions



### Wiring diagrams



## Certifications and compliance

### Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-5-1

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