



| | | | |
|--|-----------------------|-----------------|---------------|
| Product designation | Auxiliary contactor | | |
| Product type designation | BF00 | | |
| Contact characteristics | | | |
| Number of poles | Nr. | 4 | |
| Rated insulation voltage Ui IEC/EN | V | 690 | |
| Rated impulse withstand voltage Uimp | kV | 6 | |
| Operational frequency | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | A | 10 | |
| Short-time allowable current for 10s (IEC/EN60947-1) | 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 ² | 1 |
| | max | mm ² | 6 |
| Flexible c/w lug conductor section | min | mm ² | 1 |
| | max | mm ² | 4 |
| Flexible with insulated spade lug conductor section | min | mm ² | 1 |
| | max | mm ² | 4 |
| Power terminal protection according to IEC/EN 60529 | IP20 when wired | | |
| Mechanical features | | | |
| Operating position | normal | | Vertical plan |
| | allowable | | ±30° |
| Fixing | Screw / DIN rail 35mm | | |
| Weight | g | 366 | |

Conductor section

AWG/kcmil conductor section

max 10

Auxiliary contact characteristics

Thermal current I_{th}

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 |

Operations

Mechanical life

cycles 20000000

Safety related data

Performance level B10d according to EN/ISO 13489-1

mechanical load cycles 20000000

Mirror contacts according to IEC/EN 609474-4-1

YES

EMC compatibility

yes

AC coil operating

Rated AC voltage at 50/60Hz

V 400

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 | 80 |
| max | %Us | 110 |

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 | 75 |
| holding | VA | 9 |

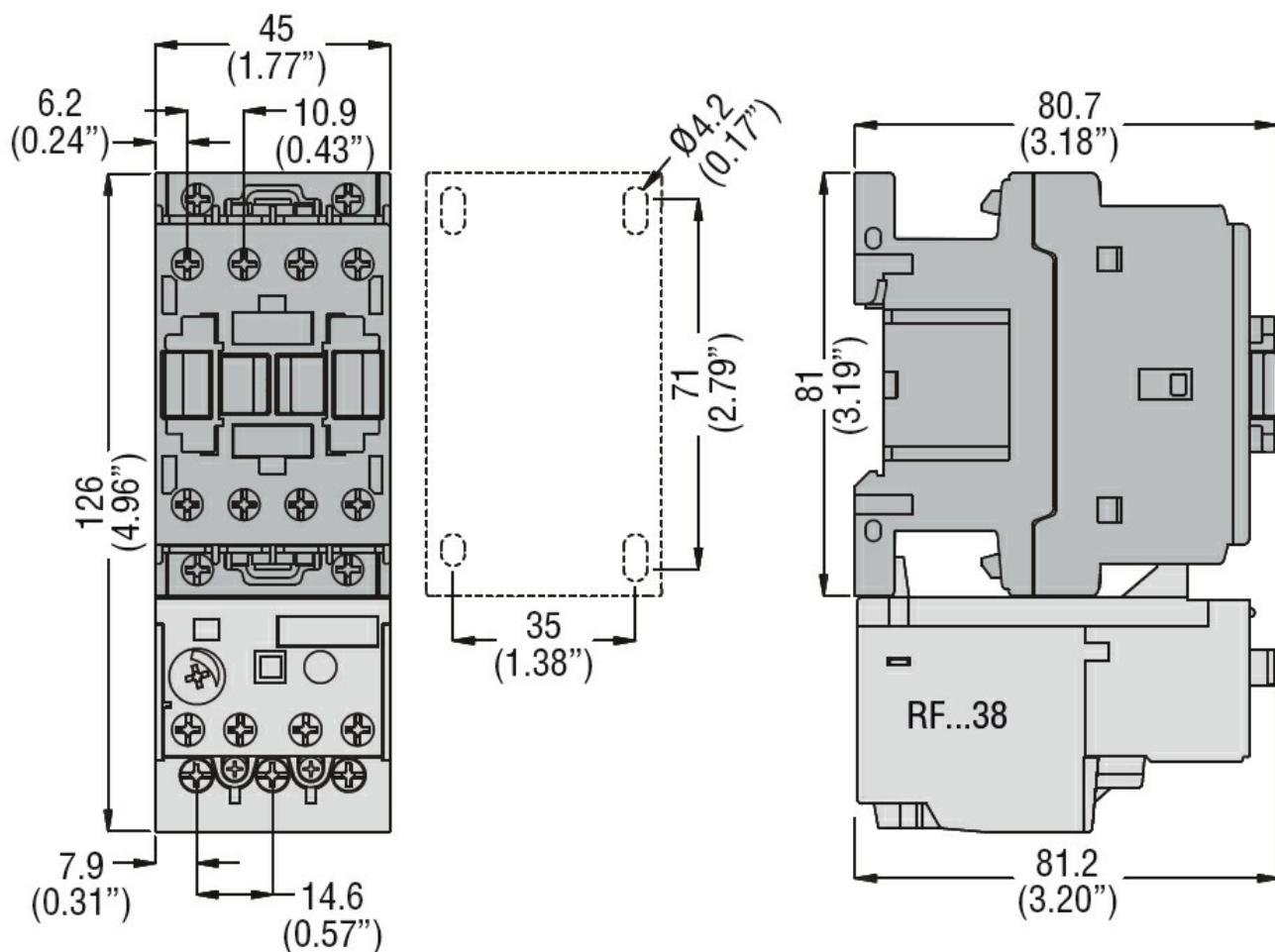
of 50/60Hz coil powered at 60Hz

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

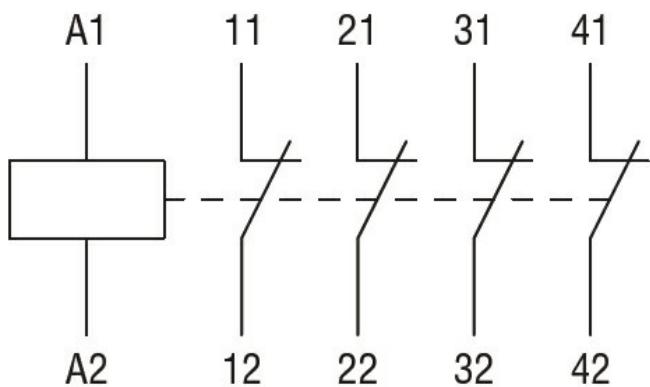
of 60Hz coil powered at 60Hz

in-rush VA 75

| | | | |
|---|-----------------------|------------|-------------|
| | holding | VA | 9 |
| Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz | W | | 2.5 |
| Max cycles frequency | | cycles/h | 3600 |
| Mechanical operation | | | |
| 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 9 |
| | | max | ms 25 |
| | Opening NC | | |
| | | min | ms 9 |
| | | max | ms 15 |
| UL technical data | | | |
| 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