



Product designation

Auxiliary
contactor
BF00

Product type designation

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} | A | 10 |
| Operational current I_e | AC-1 ($\leq 55^\circ\text{C}$) | A 0 |
| | 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 properly wired |

Mechanical features

Operating position

normal
allowable Vertical plan
±30°

| | | | | |
|--|------------------------------|-----|------|--------------------------|
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | g | | | 350 |
| 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 60947-4-1 | | | | YES |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |
| Rated AC voltage at 60Hz | V | | | 230 |
| 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 |
| Max cycles frequency | | | | |
| Mechanical operation | cycles/h | | | 3600 |
| Operating times | | | | |
| Average time for U _s 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

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

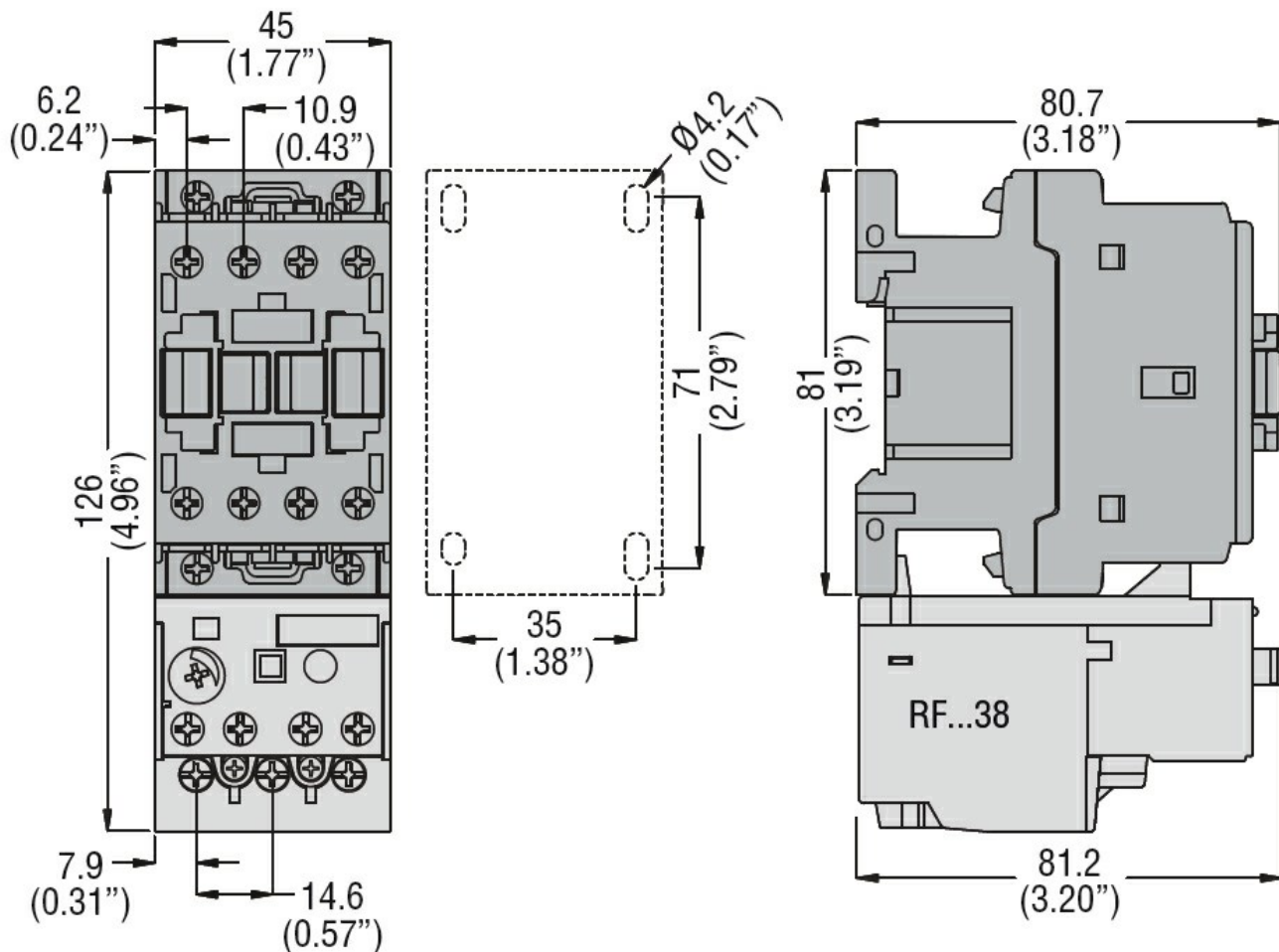
m 3000

Resistance & Protection

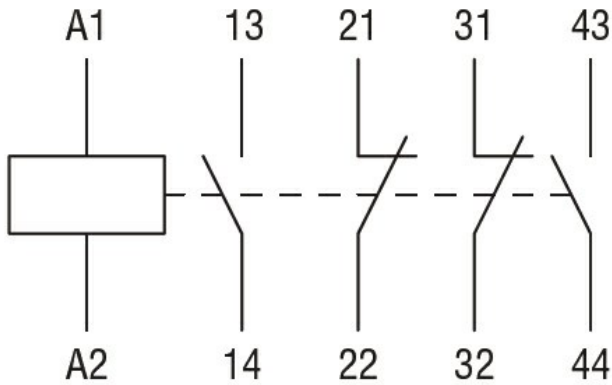
Pollution degree

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