



Auxiliary
contactor
BGF00

Product designation

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 |
| Short-time allowable current for 10s (IEC/EN60947-1) | A | 0 |

| | | | |
|-----------------|----------|---|----|
| Protection fuse | gG (IEC) | A | 16 |
|-----------------|----------|---|----|

| | | | |
|---------------------------------|-----|------|-----|
| Tightening torque for terminals | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | Ibin | 9 |

| | | | |
|-------------------------------------|-----|------|-----|
| Tightening torque for coil terminal | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | Ibin | 9 |

| | | |
|--|-----|---|
| Max number of wires simultaneously connectable | Nr. | 2 |
|--|-----|---|

| | | | |
|-------------------|-----------|-----|----|
| Conductor section | AWG/Kcmil | | |
| | | max | 12 |

| | | | |
|------------------------------------|-----|-----------------|------|
| Flexible w/o lug conductor section | min | mm ² | 0.75 |
| | max | mm ² | 2.5 |

| | | | |
|------------------------------------|-----|-----------------|-----|
| Flexible c/w lug conductor section | min | mm ² | 1.5 |
| | max | mm ² | 2.5 |

| | | | |
|---|-----|-----------------|-----|
| Flexible with insulated spade lug conductor section | min | mm ² | 1.5 |
| | max | mm ² | 2.5 |

| | |
|---|--------------------------|
| 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 | 212 |
|--------|---|-----|

| | | | | | |
|--|-----------------------------|--|--|-----------------|-----------------|
| Conductor section | AWG/kcmil conductor section | | | max | 12 |
| 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 |
| Mirror contacts according to IEC/EN 60947-4-1 | | | | YES | |
| 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 ≤20°C | | | | in-rush | W 3.2 |
| | | | | holding | W 3.2 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for U _s 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

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

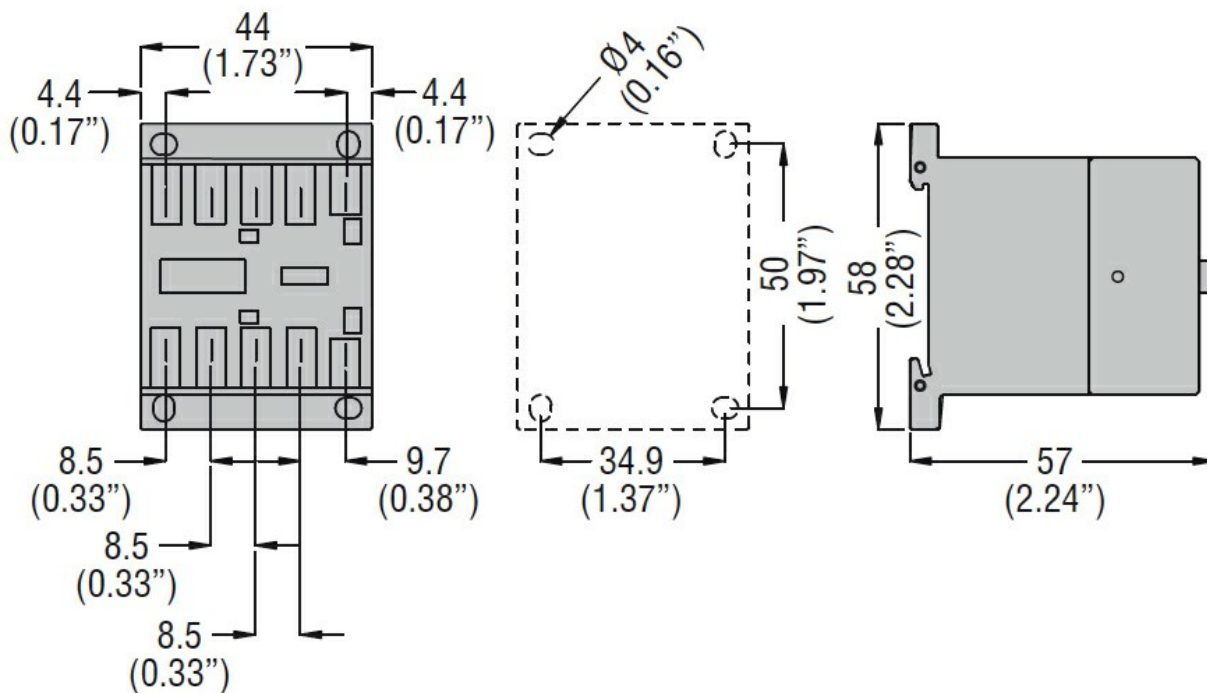
m 3000

Resistance & Protection

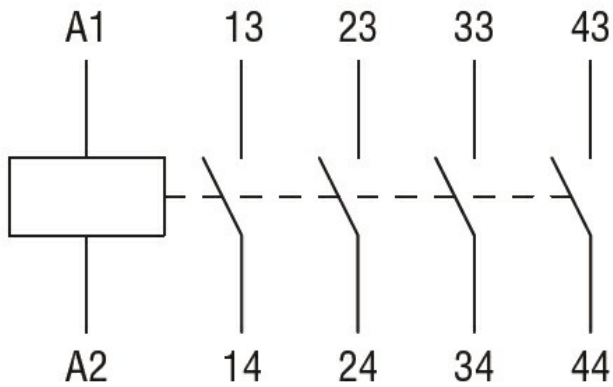
Pollution degree

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