



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 | 180 |
|--------|---|-----|

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

AC coil operating

Rated AC voltage at 60Hz V 230

AC operating voltage

of 60Hz coil powered at 60Hz
pick-up

| | | |
|-----|-----|-----|
| min | %Us | 75 |
| max | %Us | 115 |

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 | 30 |
| holding | VA | 4 |

of 50/60Hz coil powered at 60Hz

| | | |
|---------|----|----|
| in-rush | VA | 25 |
| holding | VA | 3 |

of 60Hz coil powered at 60Hz

| | | |
|---------|----|----|
| in-rush | VA | 30 |
| holding | VA | 4 |

Dissipation at holding ≤20°C 50Hz W 0.95

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 |
| <hr/> | | | | |
| | 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

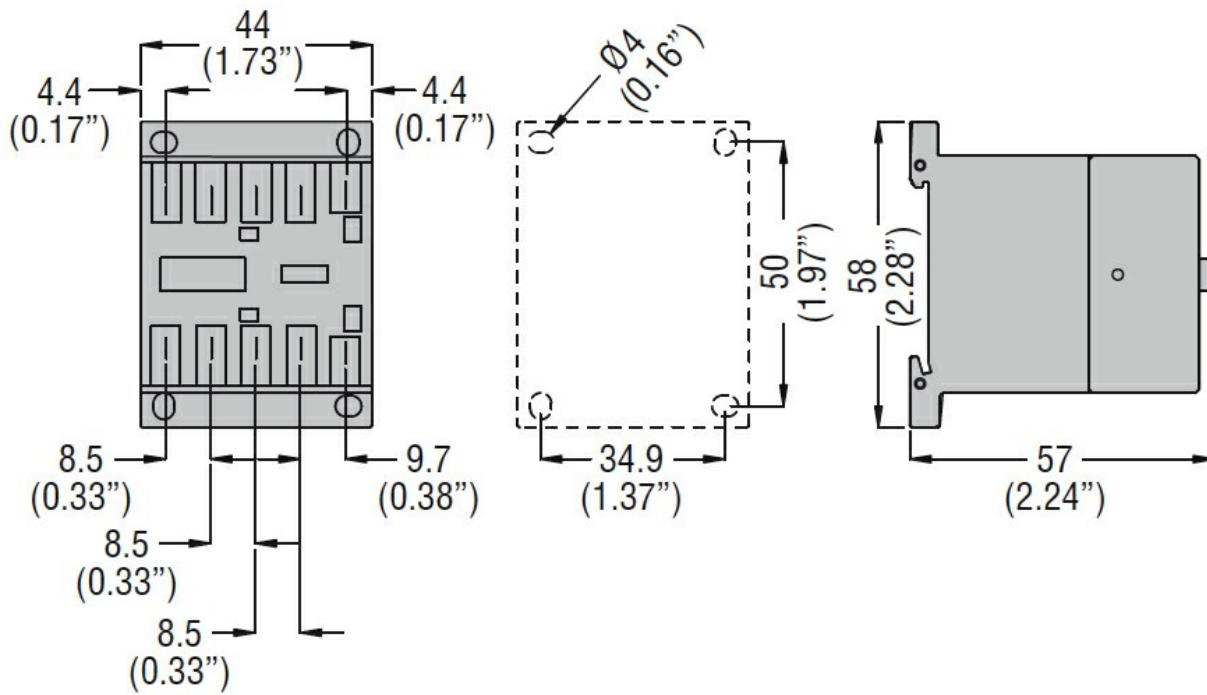
m 3000

Resistance & Protection

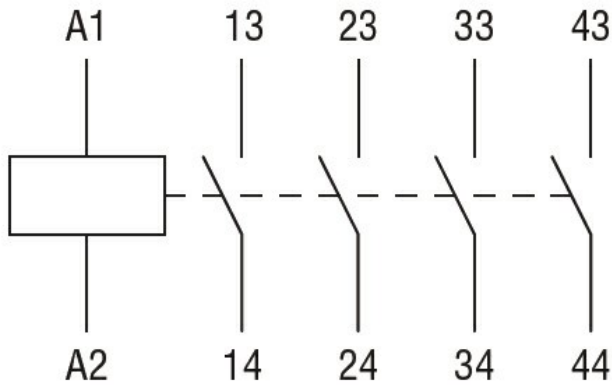
Pollution degree

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