



Product designation

Auxiliary
contactor
BGF00

Product type designation

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 | 16 |
|----------|---|----|

Tightening torque for terminals

| | | |
|-----|------|-----|
| min | Nm | 0.8 |
| max | Nm | 1 |
| min | lbin | 9 |
| max | lbin | 9 |

Tightening torque for coil terminal

| | | |
|-----|------|-----|
| min | Nm | 0.8 |
| max | Nm | 1 |
| min | lbin | 9 |
| max | lbin | 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 wired

Mechanical features

Operating position

| | | |
|-----------|--|---------------|
| normal | | Vertical plan |
| allowable | | ±30° |

Fixing

Screw / DIN rail
35mm

Weight

g 222

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 609474-4-1 | | YES |
|--|--|-----|

| | | |
|-------------------|--|-----|
| EMC compatibility | | yes |
|-------------------|--|-----|

DC coil operating

| | | |
|--------------------------|---|-----|
| DC rated control voltage | V | 110 |
|--------------------------|---|-----|

| | | |
|----------------------|--|--|
| DC operating voltage | | |
|----------------------|--|--|

| | | | |
|----------|-----|-----|-----|
| pick-up | min | %Us | 75 |
| | max | %Us | 115 |
| <hr/> | | | |
| drop-out | min | %Us | 10 |
| | max | %Us | 25 |

| | | | |
|--|---------|---|-----|
| Average coil consumption $\leq 20^\circ\text{C}$ | in-rush | W | 3.2 |
| | holding | W | 3.2 |

Max cycles frequency

| | | |
|----------------------|----------|------|
| Mechanical operation | cycles/h | 3600 |
|----------------------|----------|------|

Operating times

| | | |
|-----------------------------|--|--|
| Average time for Us control | | |
|-----------------------------|--|--|

| | | | | |
|-------|------------|-----|----|----|
| in AC | Closing NO | min | ms | 12 |
| | | max | ms | 21 |
| <hr/> | | | | |
| | Opening NO | min | ms | 9 |
| | | max | ms | 18 |
| <hr/> | | | | |
| | Closing NC | min | ms | 17 |
| | | max | ms | 26 |
| <hr/> | | | | |
| | 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

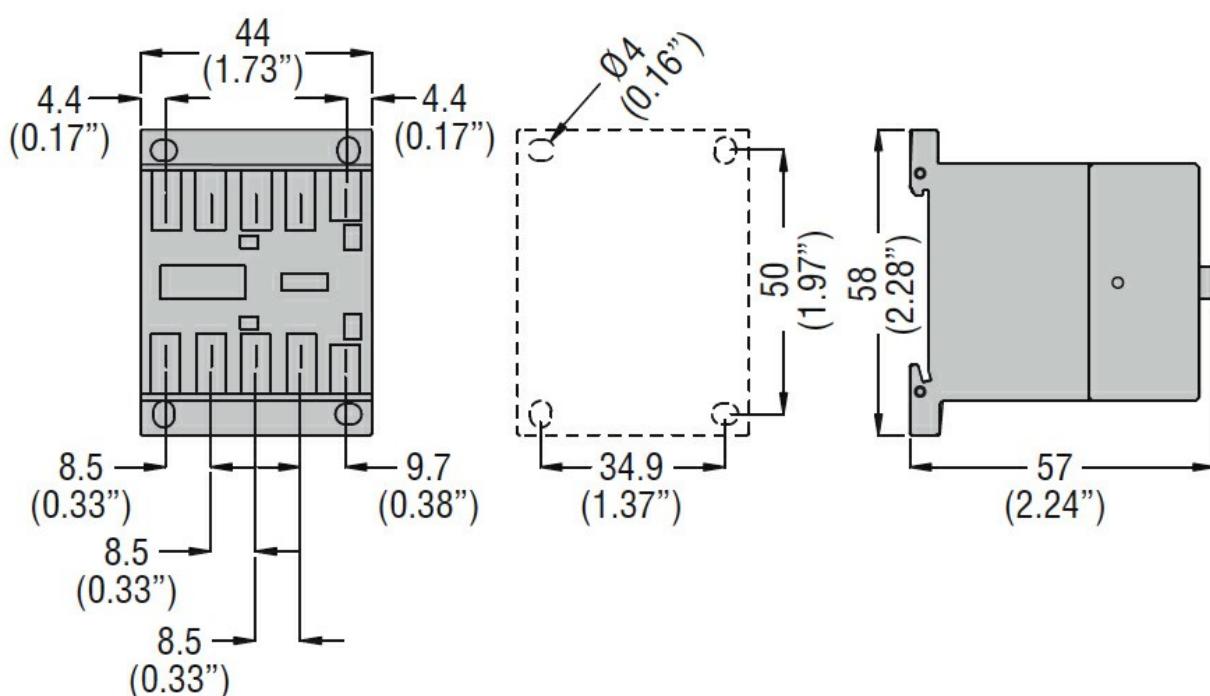
m 3000

Resistance & Protection

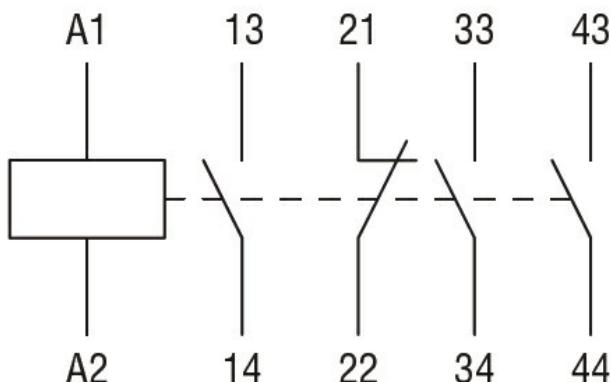
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-

CSA C22.2 n° 60947-5-1

IEC/EN 60947-1

IEC/EN 60947-5-1

UI 60947-1

UI 60947-5-1

Certificates

666

claus

FAQ

ETIM classification

ETIM 8.0

EC000196 -
Contactor relay