



Auxiliary
contactor
BG00

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 |
|---|----|

Operational current I_e

| | | |
|----------------------------------|---|-----|
| AC-1 ($\leq 40^\circ\text{C}$) | A | 160 |
|----------------------------------|---|-----|

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 | 0.59 |
| max | lbin | 0.74 |

Tightening torque for coil terminal

| | | |
|-----|------|------|
| min | Nm | 0.8 |
| max | Nm | 1 |
| min | lbft | 0.8 |
| max | lbft | 0.74 |

Max number of wires simultaneously connectable

| | |
|-----|---|
| nr. | 2 |
|-----|---|

Conductor section

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 allowable | vertical plan $\pm 30^\circ$ |
|---------------------|---------------------------------|

Fixing

Screw / DIN rail
35mm

Weight

| | |
|---|-----|
| g | 220 |
|---|-----|

Auxiliary contact characteristics

| | | | | |
|------------------------------|------|---|--|-------------|
| Type of contact | | | | 4 NO |
| Thermal current Ith | | 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 | | 1.2 |
| | 110V | A | | 0.6 |
| | 125V | A | | 0.55 |
| | 220V | A | | 0.3 |
| | 600V | A | | 0.1 |

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 | | | | true |
| EMC compatibility | | | | Yes |

AC coil operating

Rated AC voltage at 50/60Hz, 60Hz

| | | | | |
|--|-----|---|--|-----|
| | min | V | | 12 |
| | max | V | | 575 |

AC operating voltage 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 | | 0.9 |
|--|--|---|--|-----|

DC coil operating

DC rated control voltage

| | | | | |
|--|-----|---|--|-----|
| | min | V | | 6 |
| | max | V | | 250 |

DC operating voltage

pick-up

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

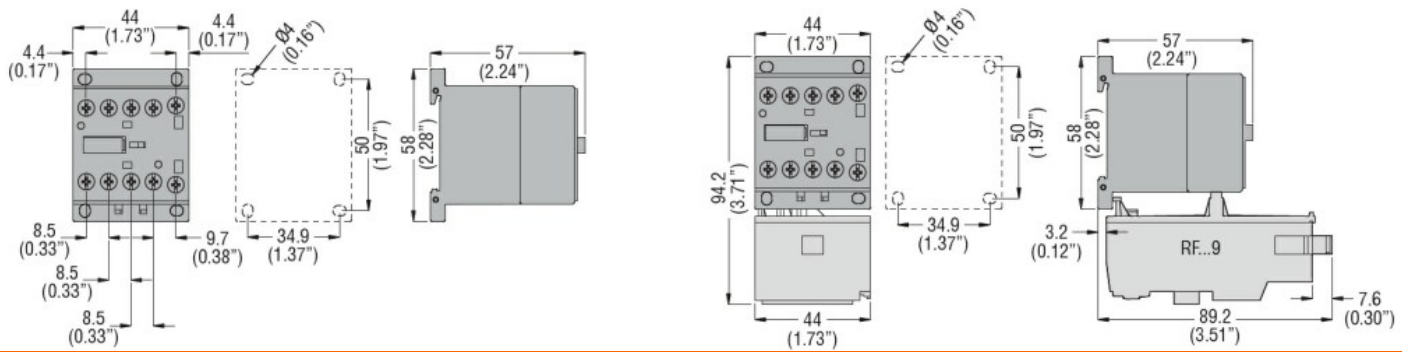
drop-out

| | | | | |
|--|-----|-----|--|----|
| | min | %Us | | 10 |
| | max | %Us | | 20 |

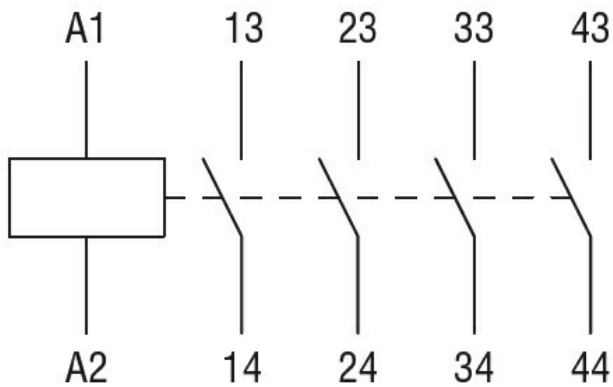
Average coil consumption ≤20°C

| | | | | |
|--|---------|---|--|-----|
| | in-rush | W | | 3.2 |
|--|---------|---|--|-----|

| | | | | |
|--|-----------------------|------------|----------|-------------|
| | | holding | W | 3.2 |
| Max cycles frequency | | | | |
| Mechanical operations | | | cycles/h | 3600 |
| Operating times | | | | |
| Average time for Us 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 |
| General USE | | | | |
| | Contactor | | | |
| | | AC current | A | 160 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -40 |
| | | max | °C | 60 |
| | Storage temperature | | | |
| | | min | °C | -55 |
| | | max | °C | 70 |
| 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

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching