



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 | 0.6 |
| max | lbin | 0.7 |

Tightening torque for coil terminal

| | | |
|-----|------|------|
| min | Nm | 0.8 |
| max | Nm | 1 |
| min | lbft | 0.59 |
| max | lbft | 0.74 |

Max number of wires simultaneously connectable

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

Conductor section

Flexible w/o lug conductor section

| | | |
|-----|-----------------|-----|
| min | mm ² | 0.8 |
| 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

Mechanical features

Operating position

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

Fixing

Screw / DIN rail
35mm

Weight

| | |
|---|-----|
| g | 200 |
|---|-----|

Auxiliary contact characteristics

| | | | |
|------------------------------|------------------------|----|------|
| Type of contact | 3 NO + 1 NC | | |
| 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 | | |
| 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

true

AC coil operating

Rated AC voltage at 50/60Hz, 60Hz

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

AC operating voltage

of 50/60Hz coil powered at 50Hz
pick-up

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

drop-out

| | | |
|-----|-----|----|
| min | %Us | 20 |
| max | %Us | 55 |

of 50/60Hz coil powered at 60Hz
pick-up

| | | |
|-----|-----|-----|
| min | %Us | 80 |
| max | %Us | 115 |

drop-out

| | | |
|-----|-----|----|
| min | %Us | 20 |
| max | %Us | 55 |

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 $\leq 20^{\circ}\text{C}$ 50Hz | W | 0.9 |
|---|---|-----|

DC coil operating

| | | | |
|--------------------------|-----|---|-----|
| DC rated control voltage | min | V | 6 |
| | max | V | 250 |

| | | | |
|--|---------|---|-----|
| Average coil consumption $\leq 20^{\circ}\text{C}$ | 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 | $^{\circ}\text{C}$ | -40 |
| | max | $^{\circ}\text{C}$ | 60 |

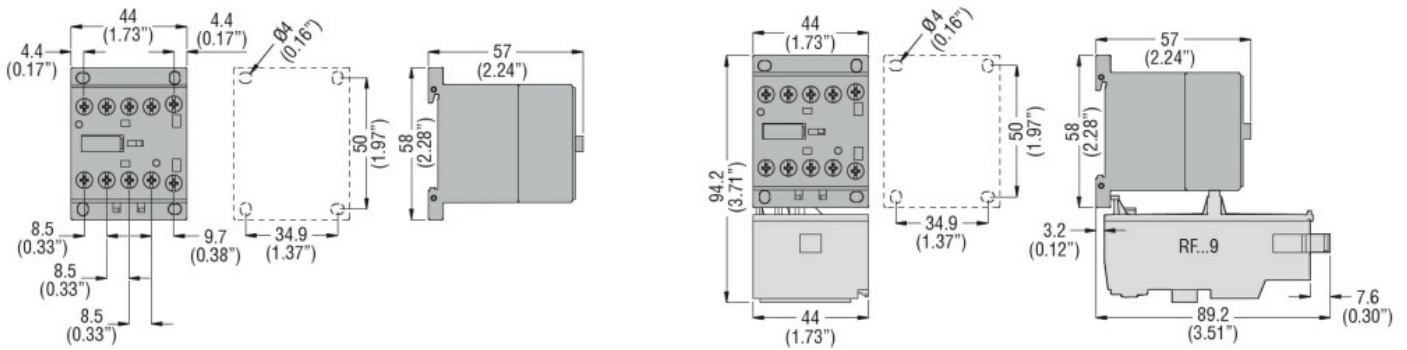
| | | | |
|---------------------|-----|--------------------|-----|
| Storage temperature | min | $^{\circ}\text{C}$ | -55 |
| | max | $^{\circ}\text{C}$ | 70 |

| | | |
|--------------|---|------|
| Max altitude | m | 3000 |
|--------------|---|------|

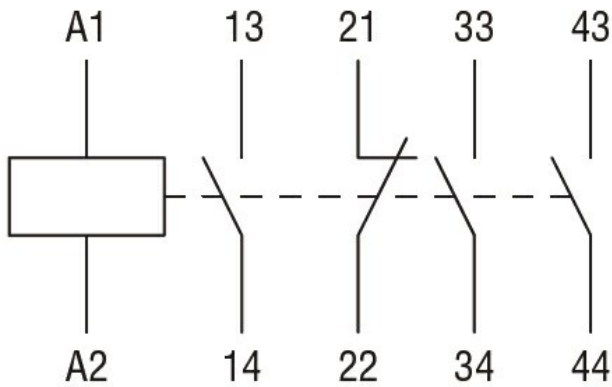
Resistance & Protection

| | |
|------------------|---|
| 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

CCC
 cULus
 EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching