



| Product type designation | Product designation | | | | Auxiliary |
|---|---|--|--------------|------|---------------|
| 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 Imax Hz 400 Hz 25 IEC Conventional free air thermal current lth A 10 | - | | | | contactor |
| Number of poles Nr. 4 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 40 IEC Conventional free air thermal current lth A 10 0 Operational current le AC-1 (s55°C) A 0 Protection fuse gG (IEC) A 25 Tightening torque for terminals min Nm 1.5 max Nm 1.5 Nm 1.8 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 0.8 Tightening torque for coil terminal mi | | | | | BF00 |
| Rated insulation voltage UI IEC/EN V 690 Rated impulse withstand voltage Ulimp kV 6 Operational frequency min Hz 25 max Hz 400 25 max Hz 400 IEC Conventional free air thermal current Ith A 10 0 Operational current Ie AC-1 (≤55°C) A 0 0 Protection fuse gG (IEC) A 25 25 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 max Ibin 1.5 1.5 Tightening torque for wires simultaneously connectable Nm 2 2 Conductor section Nm 2 2 AWG/Kcmil max mm² 10 1 Flexible w/o lug conductor section min mm² 1 mm² 1 max mm² 4 6 Flexible with insulated spade lug conductor section min mm² 1 mm² 1 mm² 4 mm² 4 1 Flexible with insulated spade lug conductor section min mm² 1 mm² 1 mm² 1 mm² 1 mm² mm² 1 mm² mm² | | os en la companya de | | | |
| Rated impulse withstand voltage Uimp | | | | | |
| Operational frequency min max Hz max Hz max Hz Hz Hz Hz 400 IEC Conventional free air thermal current Ith A 10 Operational current Ie AC-1 (≤55°C) A 0 Protection fuse gG (IEC) A 25 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max min Nm 0.8 max Nm 1.5 max Tightening torque for coil terminal min Nm 0.8 max Nm 1.5 max max Nm 1 min Ibin 0.8 max Max number of wires simultaneously connectable Nr. 2 Conductor section Max number of wires simultaneously conductor section min mm² 1 Flexible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1 | | | | | |
| Max Hz 25 400 IEC Conventional free air thermal current Ith | | · | | kV | 6 |
| EC Conventional free air thermal current lth | Operational frequenc | У | _ | | |
| IEC Conventional free air thermal current Ith Operational current Ie | | | min | | |
| Operational current le AC-1 (≤55°C) A 0 Protection fuse gG (IEC) A 25 Tightening torque for terminals min Nm Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Flexible w/o lug conductor section min mm² 10 max mm² 1 Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position | | | max | | |
| Protection fuse gG (IEC) | | | | A | 10 |
| Protection fuse gG (IEC) A 25 Tightening torque for terminals min Nm | Operational current le | 9 | | | |
| Tightening torque for terminals | | | AC-1 (≤55°C) | Α | 0 |
| Tightening torque for terminals | Protection fuse | | | | |
| Min Nm 1.5 max Nm 1.8 min lbin 1.1 max lbin 1.5 max lbin 0.8 max lbin 0.8 max lbin 0.8 max lbin 0.74 ma | | | gG (IEC) | Α | 25 |
| Max Nm 1.8 min lbin 1.1 max lbin 1.5 | Tightening torque for | terminals | | | |
| Min | | | min | Nm | 1.5 |
| Tightening torque for coil terminal | | | max | Nm | 1.8 |
| Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section | | | min | lbin | 1.1 |
| Min Nm 0.8 max Nm 1 min lbin 0.8 max lbin 0.74 | | | max | lbin | 1.5 |
| Max number of wires simultaneously connectable Max number of wires simultaneously connectable Nr. 2 | Tightening torque for | coil terminal | | | |
| Max number of wires simultaneously connectable Nr. 2 | | | min | Nm | 0.8 |
| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 6 Flexible c/w lug conductor section min mm² 1 Flexible with insulated spade lug conductor section min mm² 4 Flexible with insulated spade lug conductor section min mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features Operating position Vertical plan | | | max | Nm | 1 |
| Max number of wires simultaneously connectable Conductor section AWG/Kcmil max | | | min | Ibin | 0.8 |
| AWG/Kcmil max 10 | | | max | Ibin | 0.74 |
| AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features Department Mechanical features Operating position Normal Vertical plan | Max number of wires | simultaneously connectable | | Nr. | 2 |
| Flexible w/o lug conductor section min mm² 1 max mm² 6 | Conductor section | · | | | |
| Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position Vertical plan | | AWG/Kcmil | | | |
| min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 1 max mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position Normal Vertical plan | | | max | | 10 |
| min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 1 max mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position Normal Vertical plan | | Flexible w/o lug conductor section | | | |
| Flexible c/w lug conductor section min mm² 1 max mm² 4 max | | | min | mm² | 1 |
| Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 1 max mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan | | | max | mm² | |
| min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 1 max mm² 1 max mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan | | Flexible c/w lug conductor section | | | |
| Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position max mm² 4 IP20 when properly wired Vertical plan | | | min | mm² | 1 |
| Flexible with insulated spade lug conductor section min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan | | | | | 4 |
| min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan | | Flexible with insulated spade lug conductor section | | | |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position max mm² 4 IP20 when properly wired Mechanical features Operating position Normal Vertical plan | | | | mm² | 1 |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal IP20 when properly wired roperly wired Vertical plan | | | | | 4 |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan | | | | | |
| Mechanical features Operating position normal Vertical plan | Power terminal protection according to IEC/EN 60529 | | | | |
| Operating position normal Vertical plan | Mechanical features | | | | , , , , |
| normal Vertical plan | | | | | |
| | . 31 | | normal | | Vertical plan |
| | | | allowable | | ±30° |



ENERGY AND AUTOMATION

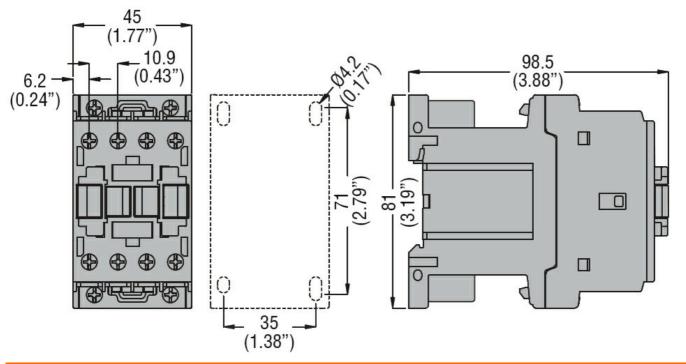
| Fixing | | | Screw / DIN rail 35mm |
|--|-----------------------|---------------------|--------------------------|
| Weight | | g | 494 |
| Conductor section | | | |
| AWG/kcmil conductor section | | | |
| | max | | 10 |
| Auxiliary contact characteristics | | | |
| Thermal current Ith | | Α | 10 |
| IEC/EN 60947-5-1 designation | | | A600 - P600 |
| Operating current AC15 | | _ | _ |
| | 230V | Α | 3 |
| | 400V | A | 1.9 |
| | 500V | Α | 1.4 |
| Operating current DC12 | 440\/ | Δ. | <i>-</i> - |
| O | 110V | Α | 5.7 |
| Operating current DC13 | 0.41/ | Δ. | <i>-</i> - |
| | 24V | A | 5.7 |
| | 48V | A | 2.9 |
| | 60V | A | 2.3 |
| | 110V | A | 1.25 |
| | 125V | A | 1.1 |
| | 220V | A | 0.55 |
| Operations | 600V | Α | 0.2 |
| Operations Mechanical life | | ovelee | 20000000 |
| Safety related data | | cycles | 20000000 |
| • | | | |
| Performance level B10d according to EN/ISO 13489-1 | mechanical load | ovoloo | 20000000 |
| Mirror contats according to IEC/EN 609474-4-1 | mechanical load | cycles | YES |
| | | | |
| EMC compatibility DC coil operating | | | yes |
| | | V | 105 |
| DC rated control voltage | | V | 125 |
| DC operating voltage | | | |
| pick-up | | 0/11- | 70 |
| | min | %Us | 70 |
| | max | %Us | 125 |
| drop-out | | 0/11- | 4.0 |
| | min | %Us | 10 |
| Average coil consumption ≤20°C | max | %Us | 40 |
| Average coil consumption \(\leq 20^{\circ} \) | | W | 5 4 |
| - · · · · · · · · · · · · · · · · · · · | ! l | VV | 5.4 |
| | in-rush | | F 1 |
| | in-rush holding | W | 5.4 |
| Max cycles frequency | | W | |
| Max cycles frequency Mechanical operation | | | |
| Max cycles frequency Mechanical operation Operating times | | W | |
| Max cycles frequency Mechanical operation Operating times Average time for Us control | | W | |
| Max cycles frequency Mechanical operation Operating times Average time for Us control in DC | | W | |
| Max cycles frequency Mechanical operation Operating times Average time for Us control | holding | W cycles/h | 3600 |
| Max cycles frequency Mechanical operation Operating times Average time for Us control in DC | holding | W cycles/h ms | 3600 54 |
| Max cycles frequency Mechanical operation Operating times Average time for Us control in DC Closing NO | holding | W cycles/h | 3600 |
| Max cycles frequency Mechanical operation Operating times Average time for Us control in DC | holding min max | W cycles/h ms ms | 3600 54 66 |
| Max cycles frequency Mechanical operation Operating times Average time for Us control in DC Closing NO | holding | W cycles/h ms | 3600 54 |

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| | Closing NC | | | |
|---------------------------|------------------------------|------------|----|-------------|
| | | min | ms | 24 |
| | | max | ms | 30 |
| | Opening NC | | | |
| | | min | ms | 47 |
| | | max | ms | 57 |
| UL technical data | | | | |
| General USE | | | | |
| | Auxiliary contacts | | | |
| | | AC current | Α | 10 |
| Contact rating of auxilia | ary contacts according to UL | | | A600 - P600 |
| 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 | on | | | |

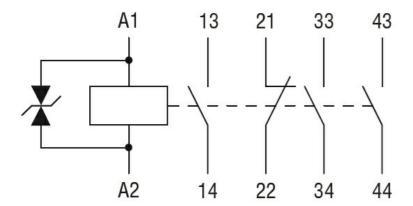


Wiring diagrams

Pollution degree Dimensions



ENERGY AND AUTOMATION



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