



| Product designation | | | Power contactor |
|--|----------|---|-----------------|
| Product type designation | | | BFK09 |
| Contact characteristics | | N.I. | • |
| Number of poles | | Nr. | 3 |
| 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 | 25 |
| Rated operational power AC-6b (T≤40°C) | | | |
| | 230V | kvar | 4.5 |
| | 400V | kvar | 7.5 |
| | 440480V | kvar | 9 |
| | 690V | kvar | 10 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 150 |
| Protection fuse | | | |
| | gG (IEC) | Α | 16 |
| Making capacity (RMS value) | , | Α | 90 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | Α | 72 |
| | 690V | Α | 71 |
| Resistance per pole (average value) | | m? | 2.5 |
| Power dissipation per pole (average value) | | | |
| r over alcorpanion por polo (arorago raido) | Ith | W | 1.6 |
| Tightening torque for terminals | Tut | • | 1.0 |
| rightening torque for terminals | min | Nm | 1.5 |
| | max | Nm | 1.8 |
| | min | lbin | 1.1 |
| | | lbin | 1.5 |
| Tightoning targue for call tarminal | max | IDIII | 1.5 |
| Tightening torque for coil terminal | | Nima | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 0.8 |
| | max | lbin | 0.74 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Conductor section | | | |
| 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 see | ction | | |
| | | min | mm² | 1 |
| | | max | mm² | 4 |
| Power terminal protect | ion according to IEC/EN 60529 | | | IP20 when wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 416 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 10 |
| Auxiliary contact charact | cteristics | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 des | signation | | | A600 - P600 |
| Operating current AC1 | <u> </u> | | | |
| | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| Operating current DC1 | 2 | | | |
| | | 110V | Α | 5.7 |
| Operating current DC1 | 3 | | | |
| | | 24V | Α | 5.7 |
| | | 48V | Α | 2.9 |
| | | 60V | Α | 2.3 |
| | | 110V | Α | 1.25 |
| | | 125V | Α | 1.1 |
| | | 220V | Α | 0.6 |
| | | 600V | Α | 0.1 |
| Operations | | | | |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 400000 |
| Safety related data | | | | |
| Performance level B10 | od according to EN/ISO 13489-1 | | | |
| | | rated load | cycles | 400000 |
| | 1505110004544 | mechanical load | cycles | 20000000 |
| | ng to IEC/EN 609474-4-1 | | | YES |
| EMC compatibility | | | | yes |
| AC coil operating | | | \' | 000 |
| Rated AC voltage at 60 | JHZ | | V | 220 |
| AC operating voltage | | | | |
| 7.0 operating ventage | -f COLL—!! ! -: COLL | | | |
| The operating ventage | of 60Hz coil powered at 60Hz | | | |
| To operating reliage | of 60Hz coil powered at 60Hz pick-up | | 0/11- | 00 |
| The operating voltage | • | min | %Us | 80 |
| To oporating voltage | pick-up | min max | %Us %Us | 80 110 |
| The operating voltage | • | max | %Us | 110 |
| The operating vertage | pick-up | | | |

of 60Hz coil powered at 60Hz

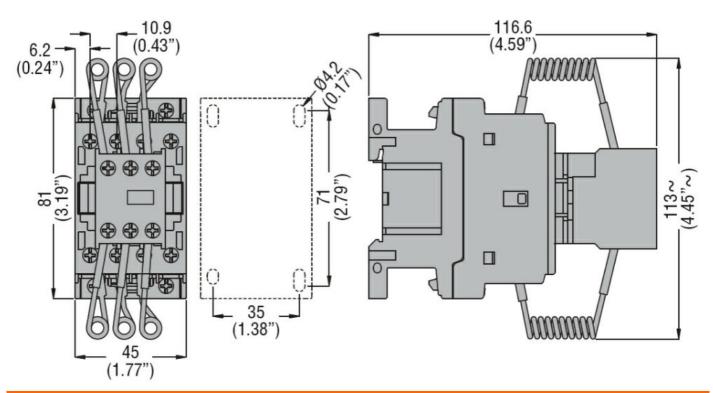




| | | | in-rush | VA | 75 |
|---------------------------|--------------------------|------------|------------|----------|-------------|
| | | | holding | VA | 9 |
| Dissipation at holding ≤ | 20°C 50Hz | | | W | 2.5 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us con | ntrol | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 8 |
| | | | max | ms | 24 |
| | | Opening NO | | | |
| | | | min | ms | 10 |
| | | | max | ms | 20 |
| | | Closing NC | | | |
| | | | min | ms | 14 |
| | | | max | ms | 28 |
| UL technical data | | | | | |
| General USE | | | | | |
| | Contactor | | | | |
| | | | AC current | Α | 25 |
| | Auxiliary contacts | | | | _ |
| | | | AC voltage | V | 600 |
| | | | AC current | Α | 10 |
| | | | DC voltage | V | 250 |
| | | | DC current | Α | 1 |
| Contact rating of auxilia | ry 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 | n | | | | |
| Pollution degree | | | | | 3 |
| | | | | | |

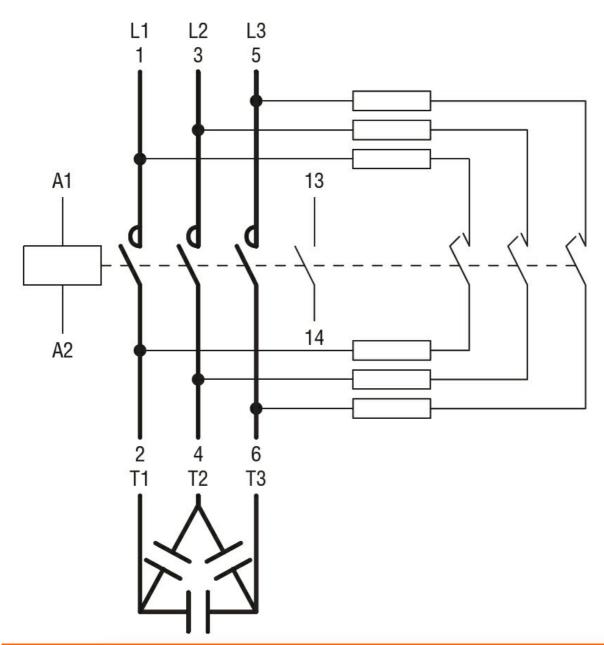






Wiring diagrams





Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor