



| Product designation | | | | Power contactor |
|--------------------------|--------------------------------------|----------|--------|-----------------|
| Product type designat | | | | BFK09 |
| Contact characteristics | S | | | |
| Number of poles | 1115051 | | Nr. | 3 |
| Rated insulation voltage | | | V | 690 |
| Rated impulse withsta | | | kV | 6 |
| Operational frequency | | | | |
| | | min | Hz | 25 |
| | | max | Hz | 400 |
| IEC Conventional free | | | A | 25 |
| Rated operational pov | ver AC-6b (T≤40°C) | | | |
| | | 230V | kvar | 4.5 |
| | | 400V | kvar | 7.5 |
| | | 440480V | kvar | 9 |
| | | 690V | kvar | 10 |
| Short-time allowable of | current for 10s (IEC/EN60947-1) | | Α | 150 |
| Protection fuse | | | | |
| | | gG (IEC) | Α | 16 |
| Making capacity (RMS | value) | | Α | 90 |
| Breaking capacity at v | oltage | | | |
| | - | 440V | Α | 72 |
| | | 500V | Α | 72 |
| | | 690V | Α | 71 |
| Resistance per pole (a | average value) | | mΩ | 2.5 |
| Power dissipation per | pole (average value) | | | |
| | | Ith | W | 1.6 |
| Tightening torque for t | erminals | | | |
| | | min | Nm | 1.5 |
| | | max | Nm | 1.8 |
| | | min | lbin | 1.1 |
| | | max | lbin | 1.5 |
| Tightening torque for o | coil terminal | | | _ |
| 0 0 1 | | min | Nm | 0.8 |
| | | max | Nm | 1 |
| | | min | Ibin | 0.8 |
| | | max | lbin | 0.74 |
| Max number of wires s | simultaneously connectable | | Nr. | 2 |
| Conductor section | , | | | |
| | AWG/Kcmil | | | |
| | , C , | max | | 10 |
| | Flexible w/o lug conductor section | max | | |
| | Tiexible w/o lag defladetel decitori | min | mm² | 1 |
| | | max | mm² | 6 |
| | Flexible c/w lug conductor section | IIIdX | 171111 | |
| | I TONIDIO DI WITAY CONTACTON SECTION | min | mm² | 1 |
| | | 111111 | | • |



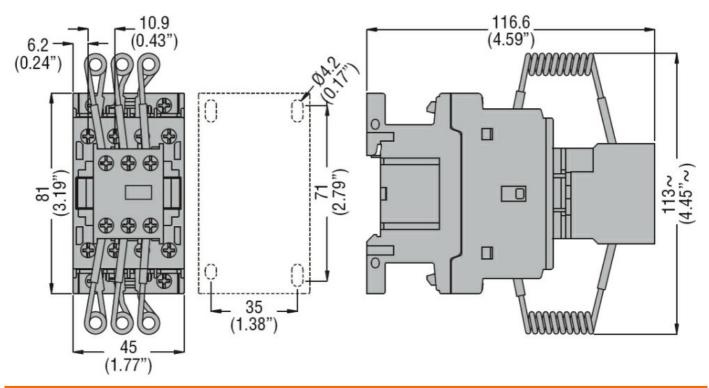


| | max | mm² | 4 |
|---|-----------------|---------------------------------------|--------------------------|
| Flexible with insulated spade lug conductor sect | | | |
| | min | mm² | 1 |
| - | max | mm² | 4 |
| Power terminal protection according to IEC/EN 60529 | | | IP20 when properly wired |
| 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 characteristics | | | |
| Thermal current Ith | | Α | 10 |
| IEC/EN 60947-5-1 designation | | | A600 - P600 |
| Operating current AC15 | | | |
| | 230V | Α | 3 |
| | 400V | Α | 1.9 |
| | 500V | A | 1.4 |
| Operating current DC12 | | _ | |
| | 110V | Α | 5.7 |
| Operating current DC13 | | _ | |
| | 24V | A | 5.7 |
| | 48V 60V | A | 2.9 2.3 |
| | 110V | A A | 2.3 1.25 |
| | 125V | A | 1.1 |
| | 220V | A | 0.6 |
| | 600V | A | 0.1 |
| Operations | 0001 | , , , , , , , , , , , , , , , , , , , | 0.1 |
| Mechanical life | | cycles | 20000000 |
| Electrical life | | cycles | 400000 |
| Safety related data | | , , , , , | |
| Performance level B10d according to EN/ISO 13489-1 | | | |
| - | rated load | cycles | 400000 |
| · | mechanical load | cycles | 20000000 |
| Mirror contats according to IEC/EN 609474-4-1 | | | YES |
| EMC compatibility | | | yes |
| AC coil operating | | | |
| Rated AC voltage at 50/60Hz | | V | 230 |
| AC operating voltage | | | |
| of 50/60Hz coil powered at 50Hz | | | |
| pick-up | ! | 0/11- | 90 |
| | min | %Us | 80 |
| dece and | max | %Us | 110 |
| drop-out | | 0/110 | 20 |
| | min | %Us %Us | 20 55 |
| of 50/60Hz coil powered at 60Hz | max | /005 | 00 |
| pick-up | | | |
| Pion 4P | | | |



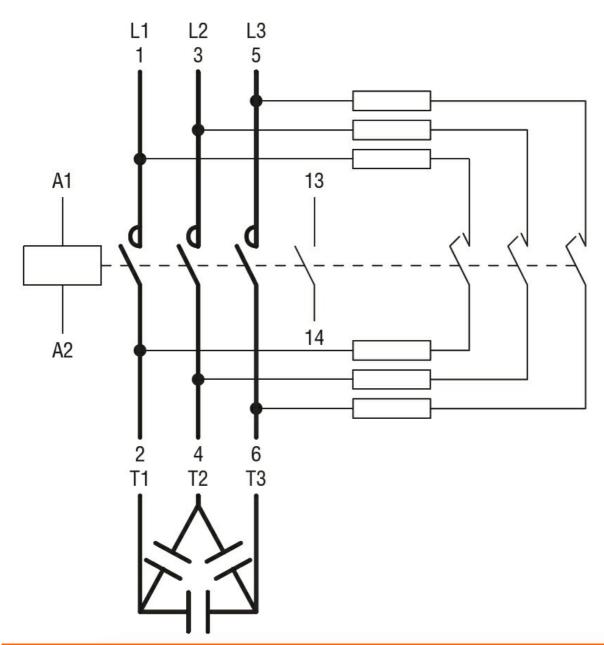


| | | min | %Us | 85 |
|------------------------|--------------------------------------|------------|----------|--|
| | | max | %Us | 110 |
| | drop-out | max | 7000 | 110 |
| | arop out | min | %Us | 20 |
| | | max | %Us | 55 |
| C average coil cons | umption at 20°C | | 7000 | |
| to avoluge con cone. | of 50/60Hz coil powered at 50Hz | | | |
| | 01 007 001 12 0011 powerou at 001 12 | in-rush | VA | 75 |
| | | holding | VA | 9 |
| | of 50/60Hz coil powered at 60Hz | | | <u>. </u> |
| | | in-rush | VA | 70 |
| | | holding | VA | 6.5 |
| | 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 | | | | |
| verage time for Us c | ontrol | | | |
| · · | 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 |
| JL 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 |
| | iary contacts according to UL | | | A600 - P600 |
| Ambient conditions | | | | |
| emperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | - | max | °C | 70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | 80 |
| /lax altitude | | | m | 3000 |
| Resistance & Protecti | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| | | | | |



Wiring diagrams





Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor