



CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 110VAC 50/60HZ



| Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Rated operational power AC-6b (T≤40°C) | min max 230V 400V | Nr. V kV Hz Hz A | BFK115 3 690 8 25 400 160 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|----------------------------|
| Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith | 230V 400V | V kV Hz Hz A | 690 8 25 400 |
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| Operational frequency IEC Conventional free air thermal current Ith | 230V 400V | Hz Hz A | 25 400 |
| IEC Conventional free air thermal current Ith | 230V 400V | Hz A | 400 |
| | 230V 400V | Hz A | 400 |
| | 230V 400V | Α | |
| | 400V | | 160 |
| Rated operational power AC-6b (1≤40°C) | 400V | kvar | |
| | 400V | kvar | |
| | | | 45 |
| | | kvar | 75 |
| | 440480V | kvar | 85 |
| | 690V | kvar | 135 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 920 |
| Protection fuse | | | |
| | gG (IEC) | Α | 160 |
| Making capacity (RMS value) | | Α | 1500 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 1200 |
| | 500V | Α | 850 |
| | 690V | Α | 905 |
| Resistance per pole (average value) | | mΩ | 0.45 |
| Power dissipation per pole (average value) | | | |
| Tonor discipance por polic (are age raide) | Ith | W | 11.5 |
| Tightening torque for terminals | 101 | • • • | 11.0 |
| rightening torque for terminals | min | Nm | 6 |
| | max | Nm | 7 |
| | min | Ibin | 4.4 |
| | | Ibin | 5.2 |
| Tightoning torque for coil terminal | max | IDITI | 5.2 |
| Tightening torque for coil terminal | | N I | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 0.59 |
| | max | Ibin | 0.74 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Conductor section | | | |
| AWG/Kcmil | | | |
| | max | | 2/0 |
| Flexible w/o lug conductor section | | | |
| | min | mm² | 1.5 |
| | max | mm² | 70 |
| Flexible c/w lug conductor section | | | |
| | min | mm² | 1.5 |





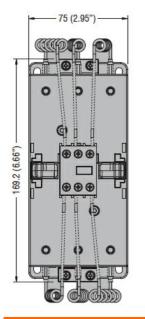
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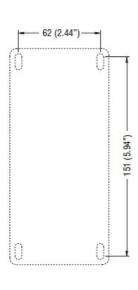
| | | max | mm² | 70 |
|------------------------|-----------------------------------------|-----------------|------------|--------------------------|
| Power terminal protect | tion according to IEC/EN 60529 | | | IP20 front |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 2095 |
| Conductor section | | | | , |
| | AWG/kcmil conductor section | | | |
| | | max | | 2/0 |
| Operations | | | | |
| Mechanical life | | | cycles | 15000000 |
| Electrical life | | | cycles | 1200000 |
| Safety related data | | | | |
| Performance level B10 | 0d according to EN/ISO 13489-1 | | | |
| | | rated load | cycles | 400000 |
| | | mechanical load | cycles | 15000000 |
| EMC compatibility | | | | yes |
| AC coil operating | 0/001- | | \/ | 110 |
| Rated AC voltage at 5 | 0/60Hz | | V | 110 |
| AC operating voltage | at 50/001 - a ail a access d'at 501 - | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | max | /003 | 110 |
| | diop out | min | %Us | 20 |
| | | max | %Us | 55 |
| | of 50/60Hz coil powered at 60Hz | <u>``</u> | | |
| | pick-up | | | |
| | | min | %Us | 85 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 40 |
| | | max | %Us | 55 |
| AC average coil consu | | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | (70/0011 | holding | VA | 20 |
| | of 50/60Hz coil powered at 60Hz | | 1/4 | 200 |
| | | in-rush | VA VA | 300 |
| | of 60Hz coil powered at 60Hz | holding | VA | 17 |
| | of 60Hz coil powered at 60Hz | in-rush | VA | 300 |
| | | holding | VA VA | 20 |
| Dissipation at holding | <20°C 50Hz | Holding | W | 6.5 |
| Max cycles frequency | | | V V | |
| Mechanical operation | | | cycles/h | 1500 |
| Operating times | | | 2, 2.20,11 | |
| Average time for Us co | ontrol | | | |
| go. 00 00 | in AC | | | |
| | Closing NO | | | |
| | ŭ | min | ms | 16 |
| | | | | |

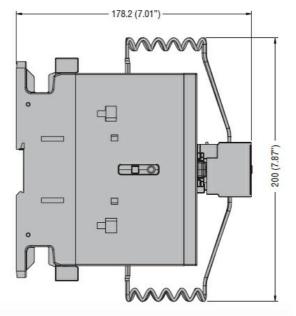


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| | Opening NO | max | ms | 32 | |
|-------------------------|-----------------------|-------|------------|----|------|
| | | 5 p s | | ms | 9 |
| | | | max | ms | 24 |
| UL technical data | | | | | |
| General USE | | | | | |
| | Contactor | | | | |
| | | | AC current | Α | 160 |
| 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 | | | | |
| Pollution degree | | | | | 3 |
| Dimensions | | | | | |





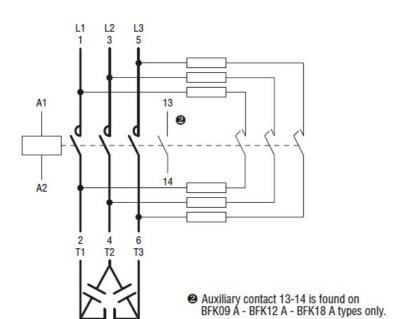


Wiring diagrams



ENERGY AND AUTOMATION

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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

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor