



| Product designation | | | | Power contactor |
|--|--|----------|------|-----------------|
| Product type designat | | | | BFK38 |
| Contact characteristics | S | | | |
| Number of poles | 1115051 | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | | V | 690 |
| Rated impulse withsta | | kV | 6 | |
| Operational frequency | 1 | | | |
| | | min | Hz | 25 |
| | | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | | Α | 56 |
| Rated operational power AC-6b (T≤40°C) | | | | |
| | | 230V | kvar | 17 |
| | | 400V | kvar | 30 |
| | | 440480V | kvar | 33 |
| - | | 690V | kvar | 36 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | | Α | 320 |
| Protection fuse | | | | |
| | | gG (IEC) | Α | 63 |
| Making capacity (RMS | value) | | Α | 380 |
| Breaking capacity at v | oltage | | | |
| | | 440V | Α | 304 |
| | | 500V | Α | 240 |
| | | 690V | Α | 192 |
| Resistance per pole (a | average value) | | mΩ | 2 |
| Power dissipation per pole (average value) | | | | |
| | | Ith | W | 6 |
| Tightening torque for terminals | | | | |
| | | min | Nm | 2.5 |
| | | max | Nm | 3 |
| | | min | Ibin | 1.8 |
| | | max | Ibin | 2.2 |
| Tightening torque for o | coil terminal | | | _ |
| 0 0 1 | | min | Nm | 0.8 |
| | | max | Nm | 1 |
| | | min | Ibin | 0.59 |
| | | max | Ibin | 0.74 |
| Max number of wires | | Nr. | 2 | |
| Conductor section | • | | | |
| | AWG/Kcmil | | | |
| | | max | | 6 |
| | Flexible w/o lug conductor section | | | |
| | | min | mm² | 2.5 |
| | | max | mm² | 16 |
| | Flexible c/w lug conductor section | max | | |
| | . Ionalio of Wildy defination decitori | min | mm² | 1 |
| | | 11111 | | • |





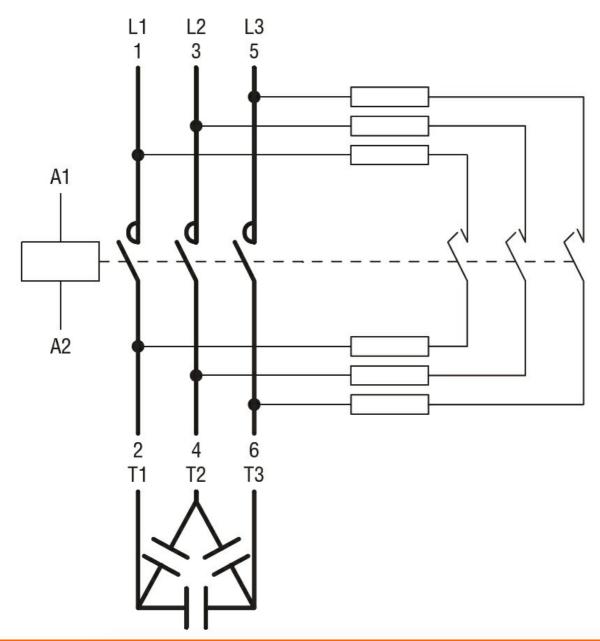
| | | max | mm² | 10 |
|-------------------------------------|--|--------------------|------------|--------------------------|
| | Flexible with insulated spade lug conducto | | 2 | 4 |
| | | min | mm² mm² | 1 10 |
| | | max | 111111 | IP20 when |
| Power terminal protect | tion according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 400 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 6 |
| Operations Machanical life | | | ovele - | 20000000 |
| Mechanical life | | | cycles | 20000000 |
| Electrical life Safety related data | | | cycles | 1400000 |
| | 0d according to EN/ISO 13489-1 | | | |
| T enormance level by | od according to EN/IOO 13403-1 | rated load | cycles | 400000 |
| | | mechanical load | cycles | 20000000 |
| EMC compatibility | | | - 7 | yes |
| AC coil operating | | | | |
| Rated AC voltage at 5 | 0/60Hz | | V | 400 |
| AC operating voltage | | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | | | |
| | | min | %Us | 80 |
| | drap out | max | %Us | 110 |
| | drop-out | min | %Us | 20 |
| | | max | %Us | 55 |
| | of 50/60Hz coil powered at 60Hz | тах | 7000 | |
| | pick-up | | | |
| | · | min | %Us | 85 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| | | max | %Us | 55 |
| AC average coil consu | • | | | |
| | of 50/60Hz coil powered at 50Hz | امير من | ١/٨ | 75 |
| | | in-rush holding | VA VA | 75 9 |
| | of 50/60Hz coil powered at 60Hz | noiding | VA | J |
| | 3. 30/30112 3011 powered at 30112 | in-rush | VA | 70 |
| | | holding | VA | 7 |
| | 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 control in AC Closing NO 8 min ms max ms 24 Opening NO 5 min ms 15 max ms Closing NC 9 min ms max ms 20 UL technical data General USE Contactor AC current Α 56 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C min -60 °C 80 max Max altitude m 3000 Resistance & Protection Pollution degree 3 **Dimensions** 125.5 (4.94")7.9 (0.57)(0.31")35 (1.38")45 (1.77")

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