



| Product designation | | | Power contactor |
|---|--|----------|-----------------|
| Product type designation | | | BF18 |
| Contact characteristics | | pr | 3 |
| Number of poles Rated insulation voltage Ui | | nr. V | <u> </u> |
| Rated insulation voltage Of Rated impulse withstand voltage Uimp | | kV | 6 |
| Operating frequency | | κv | 0 |
| Operating frequency | Operational frequency min | ⊔-, | 25 |
| | Operational frequency max | Hz Hz | 400 |
| Conventional free air thermal current Ith | | A | 32 |
| Operating current | | Α | 52 |
| operating current | Operational current AC1 (≤40°C) | А | 32 |
| | Operational current AC3 (≤440V ≤55°C) | A | 18 |
| | Operational current AC4 (400V) | A | 8.5 |
| Rated operational power AC1 (T≤40°C) | | | 0.0 |
| | 230V | kW | 12 |
| | 400V | kW | 21 |
| | 500V | kW | 26 |
| | 690V | kW | 36 |
| Rated operational power AC3 (T≤55°C) | | | |
| | 230V | kW | 4 |
| | 400V | kW | 7.5 |
| | 415V | kW | 9 |
| | 440V | kW | 9 |
| | 500V | kW | 10 |
| | 690V | kW | 10 |
| Short-time allowable current for 10s (IEC/EN6 | 0947-1) | А | 200 |
| Protection fuse | | | |
| | gG (IEC) | А | 32 |
| | aM (IEC) | А | 20 |
| Making capacity (RMS value) | | А | 180 |
| Breaking capacity at voltage | | | |
| | Breaking capacity 440V | А | 144 |
| | Breaking capacity 500V | А | 120 |
| | Breaking capacity 690V | Α | 94 |
| Resistance per pole (average value) | | mΩ | 2.5 |
| Power dissipation per pole (average value) | | | |
| | Power dissipation pole (average value) Ith | W | 2.6 |
| | AC3 | W | 0.8 |
| Tightening torque for terminals | | | |
| | min | Nm | 1.5 |
| | max | Nm | 1.8 |
| | min | lbft | 1.1 |
| | max | lbft | 1.5 |

Tightening torque for coil terminal



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| min | Nm | 0.8 |
|-----------|---|---|
| max | | 1 |
| min | lbft | 0.8 |
| max | lbft | 0.74 |
| | nr. | 2 |
| | | |
| | | |
| min | | 16 |
| max | | 10 |
| | | |
| min | mm² | 1 |
| max | mm² | 6 |
| | | |
| min | mm² | 1 |
| max | mm² | 4 |
| ion | | |
| | mm² | 1 |
| | | 4 |
| | | IP20 when wire |
| | | |
| | | 1 NC |
| | А | 10 |
| | | A600 - P600 |
| | Δ | 32 |
| | Λ | 52 |
| 2201/ | ^ | 2 |
| | | 3 |
| | | 1.9 |
| 500V | A | 1.4 |
| | | |
| 1100 | A | 5.7 |
| | _ | |
| | | 5.7 |
| | | 2.9 |
| 60V | A | 2.3 |
| 110\/ | Α | Screw / DIN rai |
| | | 35mm |
| | А | 0.6 |
| | Α | 0.2 |
| 600V | Α | 1.2 |
| | | |
| | | |
| | | |
| min | °C | -50 |
| max | °C | 70 |
| | | |
| min | °C | -60 |
| max | °C | 80 |
| | | 3000 |
| | | |
| normal | | Vertical plan |
| | | ±30° |
| allowahle | | |
| allowable | | Screw / DIN rai |
| allowable | | Screw / DIN rai 35mm |
| | max min max min max min max min max ion min max 230V 400V 500V 400V 500V 110V 24V 400V 500V 110V 110V 125V 220V 600V | max Nm min lbft max lbft nr. nr. min max mm² max mm² max max max mm² max max max mm² max max max mm² max max max max mm² max max max max max max max max max max |

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| Operations | | | | |
|--------------------------|---------------------------------|-----------------|----------|---------|
| Mechanical life | | | Cycles | 2000000 |
| Electrical life | | | Cycles | 1600000 |
| Safety related data | | | | |
| Performance level B1 | 0d according to EN/ISO 13489-1 | | . | |
| | | rated load | Cicli | 1600000 |
| N 41 | | mechanical load | Cicli | 2000000 |
| | ng to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |
| AC operating voltage | | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | min | %Us | 0.8 |
| | | max | %Us | 1.1 |
| | drop-out | Παλ | /005 | 1.1 |
| | diop-out | min | %Us | 0.2 |
| | | max | %Us | 0.55 |
| | of 50/60Hz coil powered at 60Hz | Παλ | ,000 | 5.00 |
| | pick-up | | | |
| | how ab | min | %Us | 0.85 |
| | | max | %Us | 1.1 |
| | drop-out | | | |
| | | min | %Us | 0.2 |
| | | max | %Us | 0.55 |
| | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | | min | %Us | 0.8 |
| | | max | %Us | 1.1 |
| | drop-out | | | |
| | | min | %Us | 0.2 |
| | | max | %Us | 0.55 |
| AC operating voltage | | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | | in-rush | VA | 75 |
| | | holding | VA | 9 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 70 |
| | | holding | VA | 6.5 |
| | of 60Hz coil powered at 60Hz | | | 75 |
| | | in-rush | VA | 75 |
| Dissinction at holding | | holding | VA W | 9 |
| Dissipation at holding : | | | VV | 2.5 |
| Max cycles frequency | | | Cuoles/h | 2600 |
| Mechanical operations | , | | Cycles/h | 3000 |
| Operating times | | | | |
| Average time for Us co | | | | |
| | in AC Closing NO | | | |
| | | min | me | Q |
| | | min | ms ms | 8 24 |
| | Opening NO | max | ms | 24 |
| | | min | ms | 10 |
| | | | | 20 |
| | | max | ms | 20 |

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Closing NC



| | min | ms | 14 |
|--|--|-----------------|-------------|
| | max | ms | 28 |
| | Пал | mo | 20 |
| Opening NC | | | |
| | min | ms | 7 |
| | max | ms | 18 |
| UL technical data | | | |
| Full-load current (FLA) for three-phase AC motor | | | |
| | | | |
| | at 480V | А | 14 |
| | at 600V | А | 17 |
| Yielded mechanical performance | | | |
| for single-phase AC motor | | | |
| for single phase rie motor | at 110/1001/ | h n | 4 |
| | at 110/120V | hp | 1 |
| | at 230V | hp | 3 |
| for three-phase AC motor | | | |
| · | at 200/208V | hp | 5 |
| | at 220/230V | - | 5 |
| | | hp | |
| | at 460/480V | hp | 10 |
| | at 575/600V | hp | 15 |
| Contact rating of auxiliary contacts according to UL | | | A600 - P600 |
| General USE | | | |
| | | | |
| Contactor | | | |
| | AC current | Α | 32 |
| Other features | | | |
| Pollution degree | | | 3 |
| Dimensions | | | U |
| Dimensions | | | |
| 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 | 0 | 0 7 | |
| 0.24") (0.24") (0.43") (0.4 | (3. (3. (3. (3.) (3.) (3.) (3.) (3.) (3. | 0.7 18") | |

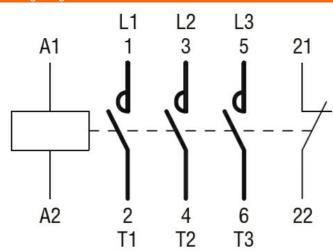
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Wiring diagrams



Certifications and compliance

Certifications

| Certifications | |
|----------------|------------------------|
| | 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 |
| Compliance | |
| | CCC |
| | cULus |
| | EAC |
| | |

ETIM 6 classification

EC000066 - Power contactor, AC switching