

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT



| Product designation Product type designation | | Power contactor BF25 |
|--|------|-------------------------|
| Contact characteristics | | - |
| 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 |
| Conventional free air thermal current Ith IEC/EN | Α | 32 |
| Operational current le | | |
| AC-1 (≤40°C) | Α | 32 |
| AC-3 (≤440V ≤55°C) | Α | 25 |
| AC-4 (400V) | Α | 10 |
| Rated operational power AC-1 (T≤40°C) | | |
| 230V | kW | 12 |
| 400V | kW | 21 |
| 500V | kW | 26 |
| 690V | kW | 36 |
| Rated operational power AC-3 (T≤55°C) | | |
| 230V | kW | 7 |
| 400V | kW | 12.5 |
| 415V | kW | 13.4 |
| 440V | kW | 13.4 |
| 500V | kW | 15 |
| 690V | kW | 11 |
| Short-time allowable current for 10s (IEC/EN60947-1) | Α | 200 |
| Protection fuse | | |
| gG (IEC) | Α | 50 |
| aM (IEC) | Α | 25 |
| Making capacity (RMS value) | Α | 250 |
| Breaking capacity at voltage | | |
| 440V | Α | 200 |
| 500V | Α | 184 |
| 690V | Α | 102 |
| 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 | 1.6 |
| Tightening torque for terminals | | |
| min | Nm | 1.5 |
| max | Nm | 1.8 |
| min | lbft | 1.1 |
| max | lbft | 1.5 |



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| | | min | Nm | 0.8 |
|------------------------|--|------------------------------|-----------|------------------|
| | | max | Nm | 1 |
| | | min | lbft | 0.8 |
| | | max | lbft | 0.74 |
| May number of wires | simultaneously connectable | max | nr. | 2 |
| Conductor section | Simulatieously confidentable | | 111. | |
| Conductor section | 414/0 | | | |
| | AWG | | | |
| | | min | | 16 |
| | | max | | 10 |
| | Flexible w/o lug conductor section | | | |
| | | min | mm² | 1 |
| | | max | mm² | 6 |
| | Flexible c/w lug conductor section | | | |
| | 3 | min | mm² | 1 |
| | | max | mm² | 4 |
| | Flexible with insulated spade lug cond | | | |
| | Flexible with insulated spade lug cond | min | mm² | 1 |
| | | | | |
| | | max | mm² | 4 |
| | ction according to IEC/EN 60529 | | | IP20 when wired |
| Auxiliary contact char | acteristics | | | |
| Type of contact | | | | 1 NO |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | esignation | | | A600 - P600 |
| Operational current le | - | | Α | 32 |
| Operating current AC | | | - , , | |
| Operating current AC | 15 | 230V | ۸ | 3 |
| | | | A | |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| Operating current DC | 12 | | | |
| | | 110V | Α | 5.7 |
| Operating current DC | 13 | | | _ |
| | | 24V | Α | 5.7 |
| | | 48V | Α | 2.9 |
| | | 60V | Α | 2.3 |
| | | | | Screw / DIN rail |
| | | 110V | Α | 35mm |
| | | 405)/ | ^ | |
| | | 125V | A | 0.6 |
| | | 220V | Α | 0.2 |
| | | 600V | Α | 1.2 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | 70 |
| | Storage temperature | | <u>='</u> | |
| | 2.5.ago tomporataro | min | °C | -60 |
| | | | °C | 80 |
| Maria de la | | max | | |
| Max altitude | | | m | 3000 |
| Operational position | | | | |
| | | Operating position normal | | Vertical plan |
| | | Operating position allowable | | ±30° |
| Mounting | | | | Screw / DIN rail |
| Mounting | | | | 35mm |
| Weight | | | g | 0.358 |
| | | | | |

ENERGY AND AUTOMATION

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| Operations | | | | |
|------------------------|--|-----------------|----------|----------|
| Mechanical life | | | Cycles | 20000000 |
| Electrical life | | | Cycles | 1200000 |
| Safety related data | | | | |
| Performance level B1 | 0d according to EN/ISO 13489-1 | | | |
| | | rated load | Cicli | 1200000 |
| | 150/511000/514 | mechanical load | Cicli | 20000000 |
| | ng to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |
| AC operating voltage | of FO/COLLT poil noward at FOLLT | | | |
| | of 50/60Hz coil powered at 50Hz pick-up | | | |
| | ρισκ-αρ | min | %Us | 0.8 |
| | | max | %Us | 1.1 |
| | drop-out | max | 7000 | |
| | u. op 0 u. | min | %Us | 0.2 |
| | | max | %Us | 0.55 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | | 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 | | 0/11- | 0.0 |
| | | min | %Us | 0.8 |
| | drop out | max | %Us | 1.1 |
| | drop-out | min | %Us | 0.2 |
| | | max | %Us | 0.55 |
| AC operating voltage | | max | 7000 | 0.00 |
| to operating voltage | of 50/60Hz coil powered at 50Hz | | | |
| | 01 00/00112 0011 poworod dt 00112 | 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 | | | |
| | | in-rush | VA | 75 |
| | | holding | VA | 9 |
| Dissipation at holding | | | W | 2.5 |
| Max cycles frequency | | | | |
| Mechanical operations | 5 | | Cycles/h | 3600 |
| Operating times | | | | |
| Average time for Us o | | | | |
| | in AC | | | |
| | Closing NO | _ | | |
| | 5.55mig 115 | | | U |
| | Closing Ito | min | ms | 8 |
| | - | min max | ms | 24 |
| | Opening NO | | | |

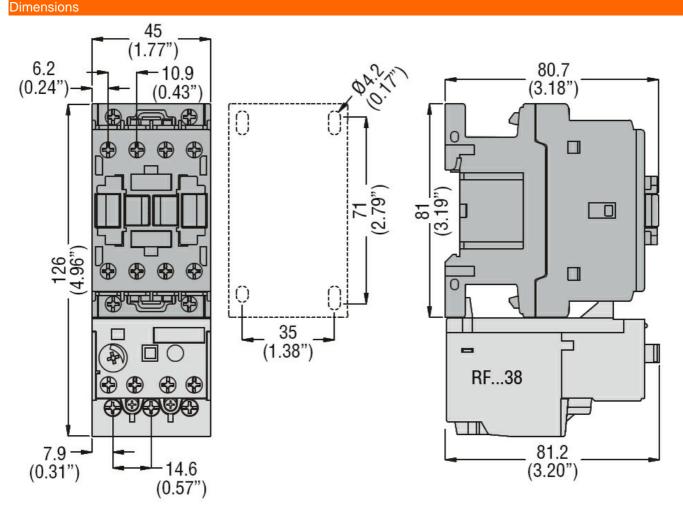


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| Closing NC | | |
|--|-------------|-----|
| min | ms | 14 |
| max | ms | 28 |
| Opening NC | | |
| min | ms | 7 |
| max | ms | 18 |
| UL technical data | | |
| Full-load current (FLA) for three-phase AC motor | | |
| at 480V | Α | 21 |
| at 600V | Α | 17 |
| Yielded mechanical performance for | | |
| for single-phase AC motor | | |
| Yielded mechanical performance at 110/1 | 20V hp | 2 |
| Yielded mechanical performance at 230V | ' hp | 3 |
| for three-phase AC motor | | |
| Yielded mechanical performance at 200/2 | 08V hp | 7.5 |
| Yielded mechanical performance at 220/2 | 30V hp | 7.5 |
| Yielded mechanical performance at 460/4 | 80V hp | 15 |
| Yielded mechanical performance at 575/6 | 00V hp | 15 |
| Contact rating of auxiliary contacts according to UL | A600 - P600 | |
| General USE | | |
| | | |

Contactor

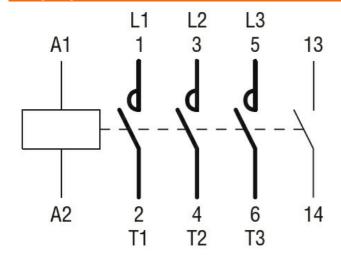
| | AC current | ^ | 32 |
|------------------|------------|---|----|
| Other features | | | |
| Pollution degree | | | 3 |
| | | | |



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Wiring diagrams



Certifications and compliance

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

BF2510A230

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching