

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 220VAC, 2NO AND 2NC



| Product designation | | | Power contactor BF18 |
|--|--------------------|--------------|-------------------------|
| Product type designation Contact characteristics | | | DF 10 |
| Number of poles | | Nr. | 4 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | IX V | |
| Operational frequency | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | max | A | 32 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 32 |
| | AC-1 (≤55°C) | Α | 26 |
| | AC-1 (≤70°C) | Α | 23 |
| | AC-3 (≤440V ≤55°C) | Α | 18 |
| | AC-4 (400V) | Α | 8.5 |
| Rated operational power AC-1 (T≤40°C) | , | | |
| | 230V | kW | 12 |
| | 400V | kW | 21 |
| | 500V | kW | 26 |
| | 690V | kW | 36 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 200 |
| Protection fuse | | | |
| | gG (IEC) | Α | 32 |
| | aM (IEC) | Α | 20 |
| Making capacity (RMS value) | | Α | 180 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 144 |
| | 500V | Α | 120 |
| | 690V | A | 94 |
| Resistance per pole (average value) | | mΩ | 2.5 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 2.6 |
| The first of the f | AC-3 | W | 0.8 |
| Tightening torque for terminals | | | 4 = |
| | min | Nm | 1.5 |
| | max | Nm | 1.8 |
| | min | lbin Ibin | 1.1 |
| Tightoning torque for coil terminal | max | Ibin | 1.5 |
| Tightening torque for coil terminal | min | Nlm | 0.0 |
| | min | Nm Nm | 0.8 1 |
| | max min | Ibin | 0.8 |
| | max | lbin | 0.74 |
| Max number of wires simultaneously connectable | IIIdX | Nr. | 2 |
| MAX HAITIDEL OF WILES SITTUITATIEDUSTY CONFIECTADIE | | INI. | ۷ |





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| O 1 (() | | | | |
|--|---|-------------|------------|--------------------------|
| Conductor section | AWG/Kcmil | | | |
| | AWG/KCIIII | max | | 10 |
| | Flexible w/o lug conductor section | Пах | | 10 |
| | | min | mm² | 1 |
| | | max | mm² | 6 |
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1 |
| | | max | mm² | 4 |
| | Flexible with insulated spade lug conductor section | | 2 | 4 |
| | | min max | mm² mm² | 1 4 |
| | | Παλ | 111111 | IP20 when |
| Power terminal proted | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 350 |
| Operations | | | 9 | |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 1600000 |
| Safety related data | | | | |
| Performance level B1 | 0d according to EN/ISO 13489-1 | | | |
| | | rated load | cycles | 1600000 |
| | mecha | anical load | cycles | 20000000 |
| EMC compatibility | | | | yes |
| AC coil operating | 2011- | | \ / | 000 |
| Rated AC voltage at 6 AC operating voltage | DUHZ | | V | 220 |
| AC operating voltage | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | pion ap | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| | | max | %Us | 55 |
| AC average coil cons | • | | | |
| | of 60Hz coil powered at 60Hz | (m. m 1 | 1// | 75 |
| | | in-rush | VA VA | 75 |
| Dissipation at holding | <20°C 50Hz | holding | VA W | 9 2.5 |
| Max cycles frequency | | | V V | ۷.۷ |
| Mechanical operation | | | cycles/h | 3600 |
| Operating times | | | 2, 0.00,11 | |
| Average time for Us o | control | | | |
| - | in AC | | | |
| | Closing NO | | | |
| | | min | ms | 8 |
| | | max | ms | 24 |
| | Opening NO | | | 4.0 |
| | | min | ms | 10 |

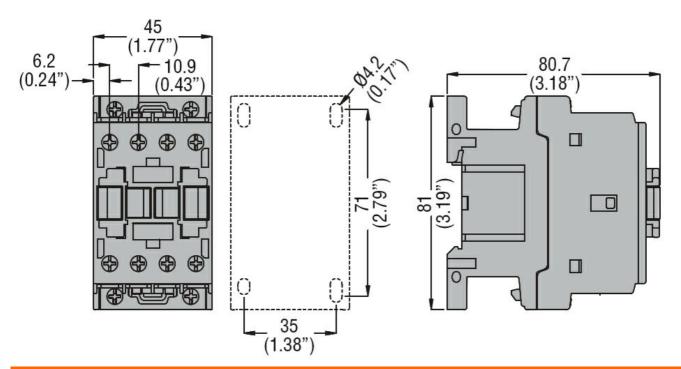




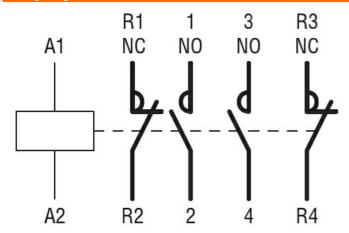
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| Closing NC | | | max | ms | 20 |
|--|-------------------------|----------------------------|------------|----|-----|
| Max | | Closing NC | | | |
| Copening NC min | | | min | ms | |
| Max a min max | | | max | ms | 28 |
| Max | | Opening NC | | | _ |
| Ult technical data Rated operational voltage AC (UL) V 600 | | | | _ | |
| Rated operational voltage AC (UL) | | | max | ms | 18 |
| Full-load current (FLA) for three-phase AC motor at 480V A 14 at 600V A 17 Yielded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 for three-phase AC motor 200/208V HP 5 220/230V HP 5 220/230V HP 5 460/480V HP 10 575/600V HP 15 General USE Contactor AC current A 32 Ambient conditions Temperature Operating temperature Operating temperature Storage temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude Max altitude Resistance & Protection Pollution degree 3 | | | | | |
| At 480V A | | | | V | 600 |
| At 600V A 17 | Full-load current (FLA) |) for three-phase AC motor | | | |
| Yielded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 for three-phase AC motor 200/208V HP 5 220/230V HP 5 460/480V HP 10 575/600V HP 15 General USE AC current A 32 Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude max °C 80 Resistance & Protection Pollution degree | | | | Α | |
| For single-phase AC motor 110/120V | | | at 600V | Α | 17 |
| 110/120V | Yielded mechanical pe | erformance | | | |
| Page | | for single-phase AC motor | | | |
| For three-phase AC motor 200/208V | | | 110/120V | HP | 1 |
| 200/208V | | | 230V | HP | 3 |
| 220/230V | | for three-phase AC motor | | | |
| A60/480V | | | 200/208V | HP | 5 |
| S75/600V HP 15 | | | 220/230V | HP | 5 |
| General USE AC current A 32 Ambient conditions Temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | 460/480V | HP | 10 |
| Contactor AC current A 32 Ambient conditions Temperature Min °C -50 max °C 70 Storage temperature min min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | 575/600V | HP | 15 |
| AC current | General USE | | | | |
| Ambient conditions | | Contactor | | | |
| Operating temperature | | | AC current | Α | 32 |
| Operating temperature | Ambient conditions | | | | |
| Operating temperature min %C -50 max %C 70 Storage temperature min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection Total color of the protection of | | | | | |
| min max °C 70 Storage temperature min °C -60 max min max °C 80 Max altitude m 3000 Resistance & Protection 9 Pollution degree 3 | · | Operating temperature | | | |
| max °C 70 Storage temperature min or or of colspan="2">C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | min | °C | -50 |
| Storage temperature min or C or -60 max or C storage -60 max or C storage Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | | | |
| min max °C -60 max -60 max °C 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3 | | Storage temperature | | | |
| Max altitudemax°C80Mesistance & Protectionm3000Pollution degree3 | | | min | °C | -60 |
| Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | | | |
| Resistance & Protection Pollution degree 3 | Max altitude | | | | |
| Pollution degree 3 | | on | | | |
| | | - | | | 3 |
| | Dimensions | | | | |

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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

EC000066 -Power contactor, AC switching