



| Product designation Product type designation | | | Power contactor BF18 |
|--|--|------|-------------------------|
| Contact characteristics | | | |
| Number of poles | | nr. | 3 |
| Rated insulation voltage Ui | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operating frequency | | | |
| - Paraming in a factory | Operational frequency min | Hz | 25 |
| | Operational frequency max | Hz | 400 |
| Conventional free air thermal current Ith | оролого по дагото, ток | Α | 32 |
| Operating current | | | |
| - F | Operational current AC1 (≤40°C) | Α | 32 |
| | Operational current AC3 (≤440V ≤55°C) | Α | 18 |
| | Operational current AC4 (400V) | Α | 8.5 |
| Rated operational power AC1 (T≤40°C) | | | |
| | 230V | kW | 12 |
| | 400V | kW | 21 |
| | 500V | kW | 26 |
| | 690V | kW | 36 |
| Rated operational power AC3A (T≤55°C) | | | |
| , | Rated operational power AC3 (T≤55°C) 230V | ′ kW | 4 |
| | Rated operational power AC3 (T≤55°C) 400\ | | 7.5 |
| | Rated operational power AC3 (T≤55°C) 415V | ′ kW | 9 |
| | Rated operational power AC3 (T≤55°C) 440V | | 9 |
| | Rated operational power AC3 (T≤55°C) 500V | ′ kW | 10 |
| | Rated operational power AC3 (T≤55°C) 690V | ′ kW | 10 |
| Short-time allowable current for 10s (IEC/EN60 | 0947-1) | Α | 200 |
| Protection fuse | | | |
| | gG (IEC) | Α | 32 |
| | aM (IEC) | Α | 20 |
| Making capacity (RMS value) | | Α | 180 |
| Breaking capacity at voltage | | | |
| - · · · · · · · · | Breaking capacity 440V | Α | 144 |
| | Breaking capacity 500V | Α | 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 |
| | | lbft | 1.5 |



| | | min | Nm | 0.8 |
|-------------------------|--|-----------|-------|--------------------------|
| | | max | Nm | 1 |
| | | min | lbft | 0.8 |
| | | max | Ibft | 0.74 |
| | imultaneously connectable | | nr. | 2 |
| Conductor section | | | | |
| | AWG | | | |
| | | min | | 16 |
| | | max | | 10 |
| | Flexible w/o lug conductor section | | 2 | |
| | | min | mm² | 1 |
| | Fig. 21 / . L L | max | mm² | 6 |
| | Flexible c/w lug conductor section | | 2 | 4 |
| | | min | mm² | 1 |
| | Flavible with insulated and deliver and ustan action | max | mm² | 4 |
| | Flexible with insulated spade lug conductor section | min | mana2 | 4 |
| | | min | mm² | 1 |
| Dower terminal protect | sion according to IEC/EN 60520 | max | mm² | IP20 when wired |
| Auxiliary contact chara | tion according to IEC/EN 60529 | | | 1P20 When whed |
| Type of contact | otonotioo | | | 1 NO |
| Thermal current Ith | | | A | 10 |
| IEC/EN 60947-5-1 des | signation | | | A600 - P600 |
| Operational current AC | | | A | 32 |
| Operating current AC1 | | | | <u> </u> |
| Operating current ACT | 5 | 230V | Α | 3 |
| | | 400V | A | 1.9 |
| | | 500V | A | 1.4 |
| Operating current DC1 | 2 | 0001 | | |
| operaning carreting to | _ | 110V | Α | 5.7 |
| Operating current DC1 | 3 | | | |
| 1 0 | | 24V | Α | 5.7 |
| | | 48V | Α | 2.9 |
| | | 60V | Α | 2.3 |
| | | 110V | ۸ | Screw / DIN rail |
| | | 1100 | Α | 35mm |
| | | 125V | Α | 0.6 |
| | | 220V | Α | 0.2 |
| | | 600V | Α | 1.2 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | - | max | °C | 70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | 80 |
| Max altitude | | | m | 3000 |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Mounting | | | | Screw / DIN rail 35mm |
| Weight | | | ~ | 0.367 |
| vveigni | | | g | 0.307 |



| rated load echanical load min max min max min max | Cycles Cycles Cicli Cicli Cicli %Us %Us %Us %Us %Us %Us %Us %Us | 20000000 1600000 1600000 200000000 yes yes 0.8 1.1 0.2 0.55 |
|---|---|--|
| min max min max min max min max | Cycles Cicli Cicli WUs WUs WUs WUs WUs WUs | 1600000 1600000 20000000 yes yes 0.8 1.1 0.2 0.55 |
| min max min max min max min max | %Us %Us %Us %Us %Us %Us | 20000000 yes yes 0.8 1.1 0.2 0.55 0.85 1.1 |
| min max min max min max min max | %Us %Us %Us %Us %Us %Us | 20000000 yes yes 0.8 1.1 0.2 0.55 0.85 1.1 |
| min max min max min max min max | %Us %Us %Us %Us %Us %Us | 20000000 yes yes 0.8 1.1 0.2 0.55 0.85 1.1 |
| min max min max min max min | %Us %Us %Us %Us %Us | yes yes 0.8 1.1 0.2 0.55 |
| max min max min max min max | %Us %Us %Us %Us %Us %Us | 0.8 1.1 0.2 0.55 |
| max min max min max min max | %Us %Us %Us %Us %Us %Us | 0.8 1.1 0.2 0.55 |
| max min max min max min max | %Us %Us %Us %Us %Us %Us | 1.1 0.2 0.55 0.85 1.1 |
| max min max min max min max | %Us %Us %Us %Us %Us %Us | 1.1 0.2 0.55 0.85 1.1 |
| max min max min max min max | %Us %Us %Us %Us %Us %Us | 1.1 0.2 0.55 0.85 1.1 |
| max min max min max min max | %Us %Us %Us %Us %Us %Us | 1.1 0.2 0.55 0.85 1.1 |
| max min max min max min max | %Us %Us %Us %Us %Us %Us | 1.1 0.2 0.55 0.85 1.1 |
| min max min max min | %Us %Us %Us %Us %Us | 0.2 0.55 0.85 1.1 |
| max min max min | %Us %Us %Us %Us | 0.55 0.85 1.1 |
| max min max min | %Us %Us %Us %Us | 0.55 0.85 1.1 |
| min max min | %Us %Us %Us | 0.85 1.1 |
| max min | %Us %Us | 1.1 |
| max min | %Us %Us | 1.1 |
| max min | %Us %Us | 1.1 |
| min | %Us | |
| | | 0.2 |
| | | |
| max | %US | |
| | | 0.55 |
| | | |
| | 0/11- | 0.0 |
| min | %Us | 0.8 |
| max | %Us | 1.1 |
| min | %Us | 0.2 |
| min | %Us | 0.55 |
| max | 7005 | 0.55 |
| | | |
| in ruch | ١/٨ | 75 |
| | | 9 |
| noluling | ٧A | <i>3</i> |
| in-ruch | ١/٨ | 70 |
| | | 6.5 |
| Holding | | 0.0 |
| in-ruch | \/Δ | 75 |
| | | 9 |
| Holding | | 2.5 |
| | V V | ۷.5 |
| | Cycles/h | 3600 |
| | Cycles/II | 3000 |
| | | |
| | | |
| | | |
| min | me | 8 |
| | | 24 |
| Παλ | 1113 | <u>_</u> 7 |
| | | |
| min | ms | 10 |
| | in-rush holding in-rush holding in-rush holding | in-rush VA holding VA in-rush VA holding VA in-rush VA holding VA Cycles/h |

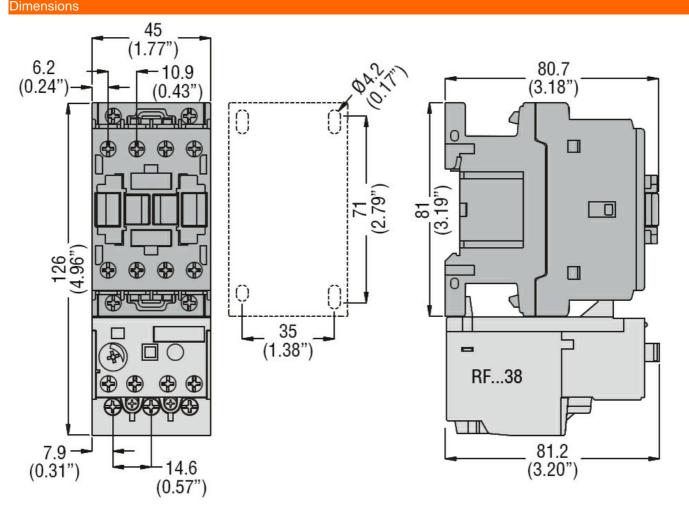


| Closing NC | | | |
|--|-------------|----|-------------|
| | min | ms | 14 |
| | max | ms | 28 |
| Opening NC | | | |
| | min | ms | 7 |
| | max | ms | 18 |
| UL technical data | | | |
| Full-load current (FLA) for three-phase AC motor | | | |
| | at 480V | Α | 14 |
| | at 600V | Α | 17 |
| Yielded mechanical performance | | | |
| for single-phase AC motor | | | |
| | at 110/120V | hp | 1 |
| | at 230V | hp | 3 |
| for three-phase AC motor | | | |
| | at 200/208V | hp | 5 |
| | at 220/230V | hp | 5 |
| | at 460/480V | hp | 10 |
| | at 575/600V | hp | 15 |
| Contact rating of auxiliary contacts according to UL | | | A600 - P600 |
| General USE | | | |

General USE

Contactor

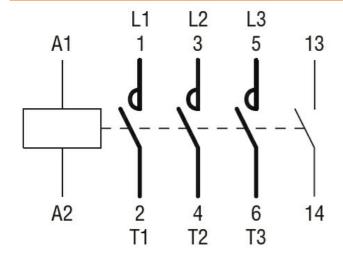
| | AC current | _ | 32 |
|------------------|------------|---|----|
| Other features | | | |
| Pollution degree | | | 3 |
| | | | |



ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT

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

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching