



Product designation Power contactor Product type designation BF18

| Contact characteristics | | | |
|--|--------------------|-------|----------|
| Number of poles | | Nr. | 4 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | _ |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | Α | 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 |
| 150 11 1 DO4 11 1 1 D 44 1 1 1 1 1 1 1 1 1 1 1 1 1 | 690V | kW | 36 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | 40.437 | | 4- |
| | ≤24V | A | 17 |
| | 48V | A | 15 |
| | 75V | A | 15 |
| | 110V 220V | A | 6 |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | Z20 V | A | |
| TEC Max current le in DCT with L/N 3 mis with 2 poles in series | ≤24V | Α | 20 |
| | 48V | A | 20 |
| | 75V | A | 20 |
| | 110V | A | 13 |
| | 220V | Α | 1 |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | 2201 | - / (| ' |
| TEO MAX current to in BOT with Eff. 2 Time with a period in conice | ≤24V | Α | 22 |
| | 48V | Α | 22 |
| | 75V | Α | 20 |
| | 110V | Α | 16 |
| | 220V | Α | 11 |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | _ |
| · | ≤24V | Α | 22 |
| | 48V | Α | 22 |
| | 75V | Α | 20 |
| | 110V | Α | 18 |
| | 220V | Α | 13 |
| | | | |



IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V Α 12 48V Α 11 75V Α 11 110V 2 Α 220V IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V Α 15 48V Α 13 75V Α 13 110V Α 8 2 220V Α IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V Α 18 48V Α 18 75V 16 Α 110V Α 12 220V Α 6 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V Α 18 48V Α 18 75V 16 Α 13 110V Α 220V 8 Α Short-time allowable current for 10s (IEC/EN60947-1) 200 Protection fuse Α 32 gG (IEC) aM (IEC) Α 20 Making capacity (RMS value) Α 180 Breaking capacity at voltage 440V Α 144 500V Α 120 690V Α 94 Resistance per pole (average value) $m\Omega$ 2.5 Power dissipation per pole (average value) W 2.6 Ith AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 Ibin 1.5 max Tightening torque for coil terminal Nm 0.8 min max Nm 1

Max number of wires simultaneously connectable

Conductor section

AWG/Kcmil

The it is a valence of the second section of the section of the second section of the section of the second section of the s

min

max

Ibin

Ibin

Nr.

0.8 0.74

2

Flexible w/o lug conductor section min mm² 1





SCHÜTZ BF18T4A, 4P (4S), 32A AC1, 230V 50/60HZ - IEC/EN/BS 60335-1

| | max | mm² | 6 |
|---|-----------------|-------------|------------------|
| Flexible c/w lug conductor section | | | |
| | min | mm² | 1 |
| | max | mm² | 4 |
| Flexible with insulated spade lug conductor | or section | | |
| | min | mm² | 1 |
| | max | mm² | 4 |
| Power terminal protection according to IEC/EN 60529 | | | IP20 when |
| | | | properly wired |
| Mechanical features | | | |
| Operating position | | | |
| | normal | | Vertical plan |
| | allowable | | ±30° |
| Fixing | | , | Screw / DIN rail |
| 1 IXIIIg | | | 35mm |
| Weight | | g | 360 |
| Conductor section | | | |
| AWG/kcmil conductor section | | | |
| | max | | 10 |
| Operations | | | |
| Mechanical life | | cycles | 20000000 |
| Electrical life | - | cycles | 1600000 |
| Safety related data | | | |
| Performance level B10d according to EN/ISO 13489-1 | | | |
| • | rated load | cycles | 1600000 |
| | mechanical load | cycles | 20000000 |
| Mirror contats according to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | | | yes |
| AC coil operating | | | , |
| Rated AC voltage at 60Hz | | V | 230 |
| AC operating voltage | | | |
| of 60Hz coil powered at 60Hz | | | |
| pick-up | | | |
| ριοίλ αφ | min | %Us | 80 |
| | max | %Us | 110 |
| drop-out | max | ,,,,,, | . 10 |
| Grop out | min | %Us | 20 |
| | max | %Us | 55 |
| AC average coil consumption at 20°C | IIIdA | ,,,,,, | |
| of 60Hz coil powered at 60Hz | | | |
| oi ooi iz ooii powered at ooi iz | in-rush | VA | 75 |
| | holding | VA | 9 |
| Dissipation at holding ≤20°C 50Hz | noiding | W | 2.5 |
| Max cycles frequency | | V V | ۷.5 |
| Mechanical operation | | cycles/h | 3600 |
| Operating times | | Cycles/II | 3000 |
| | | | |
| Average time for Us control | | | |
| in AC | | | |
| Closing NO | • | , | 0 |
| | min | ms | 8 |
| 2 | max | ms | 24 |
| Opening NO | | | |
| | | | |
| | min max | ms ms | 10 20 |



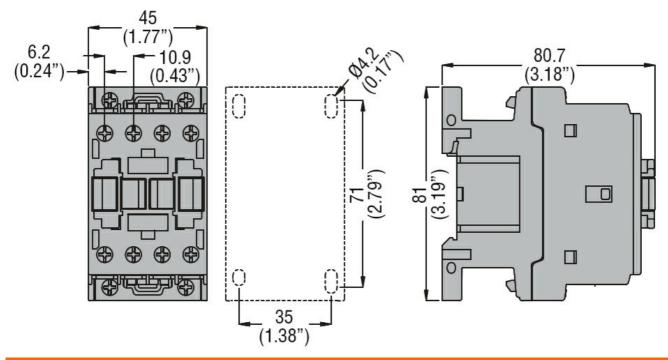


SCHÜTZ BF18T4A, 4P (4S), 32A AC1, 230V 50/60HZ - IEC/EN/BS 60335-1

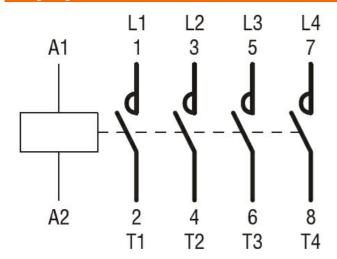
| | Closing NC | | | |
|-----------------------------|---------------------------|---------------------------|---------|------|
| | Š | min | ms | 14 |
| | | max | ms | 28 |
| | Opening NC | | | |
| | | min | ms | 7 |
| | | max | ms | 18 |
| UL technical data | | | | |
| Full-load current (FLA) | for three-phase AC motor | | | |
| | | at 480V | Α | 14 |
| | | at 600V | A | 17 |
| Yielded mechanical pe | | | | |
| | 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 |
| 0 11105 | | 575/600V | HP | 15 |
| General USE | 2 | | | |
| | Contactor | 40 | | 00 |
| Ob ant ains it a nata ation | f | AC current | Α | 32 |
| Short-circuit protection | | | | |
| | High fault | Ob ant aiment annuar | Ι- Λ | 100 |
| | | Short circuit current | kA ^ | 100 |
| | | Fuse rating Fuse class | Α | 60 |
| | Standard fault | ruse ciass | | J |
| | Standard fault | Short circuit current | kA | 5 |
| | | Fuse rating | A | 80 |
| Ambient conditions | | i use rating | | 00 |
| Temperature | | | | |
| romperature | Operating temperature | | | |
| | Operating temperature | min | °C | -50 |
| | | max | °C | 70 |
| | Storage temperature | max | | |
| | Ctorago tomporataro | min | °C | -60 |
| | | max | °C | 80 |
| Max altitude | | | m | 3000 |
| Resistance & Protection | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| | | | | |



ENERGY AND AUTOMATION



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60335-1

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