ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 140A, AC COIL 50/60HZ, 400VAC



Product designation Power contactor
Product type designation BF95

| Product type designation | | | BF95 |
|---|--------------------|-----|------|
| Contact characteristics | | | |
| Number of poles | | Nr. | 4 |
| Rated insulation voltage Ui IEC/EN | | V | 1000 |
| Rated impulse withstand voltage Uimp | | kV | 8 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | Α | 140 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 140 |
| | AC-1 (≤55°C) | Α | 115 |
| | AC-1 (≤70°C) | Α | 100 |
| | AC-3 (≤440V ≤55°C) | Α | 95 |
| | AC-4 (400V) | Α | 45 |
| Rated operational current AC-3 (T≤55°C) | | | |
| | 230V | Α | 95 |
| | 400V | Α | 95 |
| | 415V | Α | 95 |
| | 440V | Α | 95 |
| | 500V | Α | 95 |
| | 690V | Α | 93 |
| | 1000V | Α | 33 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | Α | 140 |
| | 48V | Α | 140 |
| | 75V | Α | 100 |
| | 110V | Α | 10 |
| | 220V | Α | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | Α | 140 |
| | 48V | Α | 140 |
| | 75V | Α | 140 |
| | 110V | Α | 110 |
| | 220V | Α | 12 |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | Α | 140 |
| | 48V | Α | 140 |
| | 75V | Α | 155 |
| | 110V | Α | 120 |
| | 220V | Α | 125 |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | 140 |
| | 48V | Α | 140 |
| | | | |



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| | 75V | Α | 155 |
|---|-------------|----------|-----------------|
| | 110V | Α | 140 |
| | 220V | Α | 140 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | .0.41.7 | | |
| | ≤24V | A | 140 |
| | 48V | A | 44 |
| | 75V 110V | A | 36 |
| | 220V | A A | 6 _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | 220 V | | _ |
| The max current le in boo-boo with the 2 forms with 2 poles in series | ≤24V | Α | 140 |
| | 48V | A | 63 |
| | 75V | Α | 60 |
| | 110V | A | 55 |
| | 220V | Α | 7 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | • |
| | ≤24V | Α | 140 |
| | 48V | Α | 115 |
| | 75V | Α | 90 |
| | 110V | Α | 85 |
| | 220V | Α | 76 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | 140 |
| | 48V | Α | 110 |
| | 75V | Α | 110 |
| | 110V | Α | 105 |
| | 220V | Α | 95 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 760 |
| Protection fuse | | | |
| | gG (IEC) | Α | 160 |
| | aM (IEC) | Α | 100 |
| Making capacity (RMS value) | | Α | 1200 |
| Breaking capacity at voltage | 4.401.4 | | |
| | 440V | Α | 1100 |
| | 500V | A | 775 |
| Decistance and the language colors | 690V | A | 745 |
| Resistance per pole (average value) | | mΩ | 0.45 |
| Power dissipation per pole (average value) | 141- | 147 | 0.0 |
| | Ith | W | 8.8 |
| Tightening torque for terminals | AC-3 | W | 4.1 |
| rightening torque for terminals | min | Nlm | 6 |
| | min | Nm Nm | 6 7 |
| | max min | Ibin | <i>7</i> 4.4 |
| | max | Ibin | 5.2 |
| Tightening torque for coil terminal | Пах | 10111 | U.L |
| nginoning torque for contentinal | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 0.59 |
| | max | Ibin | 0.74 |
| Conductor section | Шах | | |
| AWG/Kcmil | | | |
| | max | | 2/0 |
| | 111071 | | |

BF95T4A400



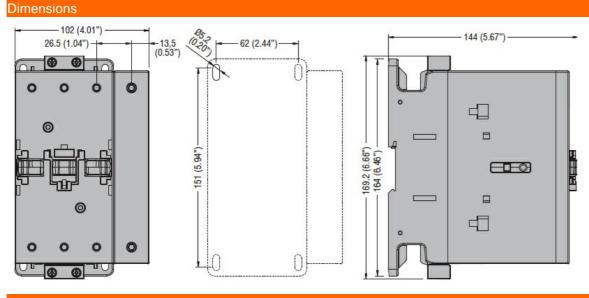


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| | Flexible w/o lug conductor section | | | |
|---|--|-----------|--------|------------------|
| | • | min | mm² | 1.5 |
| | | max | mm² | 70 |
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 70 |
| Power terminal protect | tion according to IEC/EN 60529 | | | IP20 front |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Eiving | | | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 2420 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 2/0 |
| Auxiliary contact chara | acteristics | | | |
| Thermal current Ith | | | Α | 140 |
| Operations | | | | |
| Mechanical life | | | cycles | 15000000 |
| Electrical life | | | cycles | 1400000 |
| AC coil operating | | | | |
| Rated AC voltage at 5 | 0/60Hz | | V | 400 |
| AC operating voltage | | | | |
| 3 3 3 3 | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | | | |
| | p. san sap | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | - |
| | 2.56 | min | %Us | 20 |
| | | max | %Us | 55 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | r r | min | %Us | 85 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | ' | min | %Us | 40 |
| | | max | %Us | 55 |
| AC average coil consu | umption at 20°C | | | |
| Ŭ | of 50/60Hz coil powered at 50Hz | | | |
| | | in-rush | VA | 300 |
| | | holding | VA | 20 |
| | of 50/60Hz coil powered at 60Hz | <u> </u> | | |
| | от о | in-rush | VA | 275 |
| | | holding | VA | 17 |
| | of 60Hz coil powered at 60Hz | 9 | | • |
| | | in-rush | VA | 300 |
| | | | VA | 20 |
| | | HORITICI | | |
| Dissipation at holding | | holding | | 6.5 |
| | | noiding | W | 6.5 |
| Max cycles frequency | | noiding | W | |
| Dissipation at holding Max cycles frequency Mechanical operation Operating times | | notating | | |

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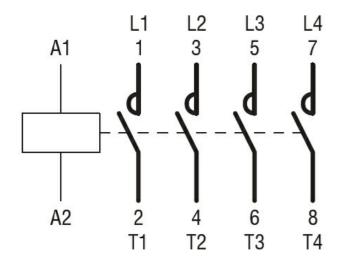
| | in AC | | | | |
|--------------------------|-----------------------|------------|-----------------------|-----|------|
| | III AC | Closing NO | | | |
| | | | min | ms | 16 |
| | | | max | ms | 32 |
| | | Opening NO | | | |
| | | | min | ms | 9 |
| | | | max | ms | 24 |
| UL technical data | | | | | |
| General USE | _ | | | | |
| | Contactor | | | _ | |
| 0 | | | AC current | Α | 150 |
| Short-circuit protection | | | | | |
| | High fault | | Object of the Manager | | 400 |
| | | | Short circuit current | kA | 100 |
| | | | Fuse rating | Α | 200 |
| | 0, 1, 1, 1, | | Fuse class | | J |
| | Standard fault | | 01 4 1 14 | | 4.0 |
| | | | Short circuit current | kA | 10 |
| | | | Fuse rating | Α | 250 |
| A 1.1 (194 | | | Fuse class | | RK5 |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| | Operating temperature | | | | |
| | | | min | °C | -50 |
| | | | max | °C | 70 |
| | Storage temperature | | | 0.0 | 00 |
| | | | min | °C | -60 |
| | | | max | °C | +80 |
| Max altitude | | | | m | 3000 |



Wiring diagrams

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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