



| Product designation | | | Power contactor |
|--|--------------------|-----|-----------------|
| Product type designation | | | BF115 |
| Contact characteristics | | | - |
| Number of poles | | Nr. | 3 |
| 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 | | A | 160 |
| Operational current le | | | |
| | AC-1 (≤40°C) | А | 160 |
| | AC-1 (≤55°C) | А | 130 |
| | AC-1 (≤70°C) | А | 115 |
| | AC-3 (≤440V ≤55°C) | А | 115 |
| | AC-4 (400V) | A | 54 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 37 |
| | 400V | kW | 55 |
| | 415V | kW | 55 |
| | 440V | kW | 55 |
| | 500V | kW | 75 |
| | 690V | kW | 110 |
| | 1000V | kW | 55 |
| Rated operational current AC-3 (T≤55°C) | | | |
| | 230V | А | 115 |
| | 400V | А | 115 |
| | 415V | А | 115 |
| | 440V | А | 115 |
| | 500V | А | 106 |
| | 690V | А | 106 |
| | 1000V | А | 39 |
| IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series | | | |
| | ≤24V | А | 160 |
| | 48V | А | 160 |
| | 75V | А | 120 |
| | 110V | А | 10 |
| | 220V | А | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | А | 160 |
| | 48V | А | 160 |
| | 75V | А | 160 |
| | 110V | А | 130 |
| | 220V | А | 14 |

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series

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BF11500E110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 60...110VAC/DC

| | ≤24V | А | 160 |
|---|------------|------|----------|
| | 48V | А | 160 |
| | 75V | А | 160 |
| | 110V | А | 140 |
| | 220V | А | 145 |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | А | 160 |
| | 48V | А | 160 |
| | 75V | А | 160 |
| | 110V | А | 160 |
| | 220V | А | 160 |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series | | | |
| | ≤24V | А | 160 |
| | 48V | A | 50 |
| | 75V | A | 40 |
| | 110V | A | 6 |
| | 220V | A | _ |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series | 220 V | ~ | |
| IEC max current le in DC3-DC3 with L/K = 15ms with 2 poles in series | ≤24V | А | 160 |
| | 48V | A | 72 |
| | 40V 75V | | |
| | 110V | A | 65 65 |
| | | A | 65 7 |
| | 220V | A | 7 |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series | -0.01 | • | 100 |
| | ≤24V | A | 160 |
| | 48V | A | 150 |
| | 75V | A | 100 |
| | 110V | A | 100 |
| | 220V | A | 92 |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series | | | |
| | ≤24V | A | 160 |
| | 48V | A | 120 |
| | 75V | A | 120 |
| | 110V | A | 125 |
| | 220V | A | 115 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | А | 920 |
| Protection fuse | | | |
| | gG (IEC) | А | 200 |
| | aM (IEC) | A | 125 |
| Making capacity (RMS value) | | Α | 1500 |
| Breaking capacity at voltage | | | |
| | 440V | А | 1200 |
| | 500V | А | 850 |
| | 690V | Α | 905 |
| Resistance per pole (average value) | | mΩ | 0.45 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 11.5 |
| | AC-3 | W | 6.0 |
| Tightening torque for terminals | | | |
| | min | Nm | 6 |
| | max | Nm | 7 |
| | min | lbin | 4.4 |
| | max | lbin | 5.2 |
| | | | |

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BF11500E110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 60...110VAC/DC

| Tightening torque for | coil terminal | | | |
|------------------------|------------------------------------|-----------|--------|------------------|
| | | min | Nm | 0.8 |
| | | max | Nm | 1 |
| | | min | lbin | 0.59 |
| | | max | lbin | 0.74 |
| Conductor section | | | | |
| | AWG/Kcmil | | | |
| | | max | | 2/0 |
| | Flexible w/o lug conductor section | | | |
| | 5 | min | mm² | 1.5 |
| | | max | mm² | 70 |
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 70 |
| Power terminal protect | ction according to IEC/EN 60529 | | | IP20 front |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 2060 |
| Conductor section | | | 9 | |
| | AWG/kcmil conductor section | | | |
| | | max | | 2/0 |
| Operations | | - | | |
| Mechanical life | | | cycles | 15000000 |
| Electrical life | | | cycles | 1200000 |
| AC coil operating | | | , | |
| Rated AC voltage at 5 | 50/60Hz, 60Hz | | | |
| 0 | | min | V | 60 |
| | | max | V | 110 |
| AC operating voltage | | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | | | |
| | 1 | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | max | %Us | ≤70 Us min |
| | of 50/60Hz coil powered at 60Hz | | - | |
| | pick-up | | | |
| | 1 1 | min | %Us | 80 Us min |
| | | max | %Us | 110 Us max |
| | drop-out | | | |
| | · | max | %Us | ≤70 Us min |
| AC average coil cons | umption at 20°C | | | |
| J | of 50/60Hz coil powered at 50Hz | | | |
| | | in-rush | VA | 70175 |
| | | holding | VA | 1.73.5 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 70175 |
| | | holding | VA | 1.73.5 |
| | of 60Hz coil powered at 60Hz | lioiding | ., . | |
| | | in-rush | VA | 70175 |
| | | 111031 | V/ \ | |

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 60...110VAC/DC

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| | .0000 5011 | | holding | VA | 1.73.5 |
|---|--|------------|---|--|--|
| Dissipation at holdin | g ≤20°C 50Hz | | | W | 1.31,5 |
| DC coil operating | 1 | | | | |
| DC rated control vol | tage | | | V | <u> </u> |
| | | | min | V | 60 |
| | - | | max | V | 110 |
| DC operating voltage | | | | | |
| | pick-up | | | 0/11 | 0011 |
| | | | min | %Us | 80 Us min |
| | | | max | %Us | 110 Us max |
| | drop-out | | | | |
| | | | max | %Us | ≤70 Us min |
| verage coil consun | nption ≤20°C | | | | |
| | | | in-rush | W | 7080 |
| | | | holding | W | 1.31.5 |
| Max cycles frequenc | | | | | |
| Mechanical operation | n | | | cycles/h | 1500 |
| Operating times | | | | | |
| verage time for Us | control | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | - | min | ms | 45 |
| | | | max | ms | 90 |
| | | Opening NO | | | |
| | | - p | min | ms | 24 |
| | | | max | ms | 60 |
| JL technical data | | | Пах | inio | |
| rielded mechanical | norformonoo | | | | |
| | Denormance | | | | |
| | | tor | | | |
| | for three-phase AC mot | tor | 200/208\/ | HP | 40 |
| | | tor | 200/208V 220/230V | HP HP | 40 40 |
| | | tor | 220/230V | HP | 40 |
| | | tor | 220/230V 460/480V | HP HP | 40 75 |
| | | tor | 220/230V | HP | 40 |
| | for three-phase AC mot | tor | 220/230V 460/480V | HP HP | 40 75 |
| | | tor | 220/230V 460/480V 575/600V | HP HP HP | 40 75 100 |
| General USE | for three-phase AC mot | tor | 220/230V 460/480V | HP HP | 40 75 |
| General USE | for three-phase AC mot Contactor on fuse, 600V | tor | 220/230V 460/480V 575/600V | HP HP HP | 40 75 100 |
| General USE | for three-phase AC mot | tor | 220/230V 460/480V 575/600V AC current | HP HP HP | 40 75 100 165 |
| General USE | for three-phase AC mot Contactor on fuse, 600V | tor | 220/230V 460/480V 575/600V AC current | HP HP HP A | 40 75 100 165 |
| General USE | for three-phase AC mot Contactor on fuse, 600V | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating | HP HP HP | 40 75 100 165 100 200 |
| General USE | for three-phase AC mot Contactor on fuse, 600V High fault | tor | 220/230V 460/480V 575/600V AC current | HP HP HP A | 40 75 100 165 |
| General USE | for three-phase AC mot Contactor on fuse, 600V | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class | HP HP A A KA A | 40 75 100 165 100 200 J |
| General USE | for three-phase AC mot Contactor on fuse, 600V High fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current | HP HP A A kA A | 40 75 100 165 100 200 J 10 |
| General USE | for three-phase AC mot Contactor on fuse, 600V High fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating | HP HP A A KA A | 40 75 100 165 100 200 J 10 250 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current | HP HP A A kA A | 40 75 100 165 100 200 J 10 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating | HP HP A A kA A | 40 75 100 165 100 200 J 10 250 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating | HP HP A A kA A | 40 75 100 165 100 200 J 10 250 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating | HP HP A A kA A | 40 75 100 165 100 200 J 10 250 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault Standard fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating | HP HP A A kA A | 40 75 100 165 100 200 J 10 250 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault Standard fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class | HP HP A A kA A KA A | 40 75 100 165 100 200 J 10 250 RK5 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault Standard fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class min | HP HP A A kA A KA A | 40 75 100 165 100 200 J 10 250 RK5 -50 |
| General USE Short-circuit protecti | for three-phase AC mot Contactor on fuse, 600V High fault Standard fault | tor | 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse class min max | HP HP A kA A kA A | 40 75 100 165 100 200 J 10 250 RK5 -50 70 |
| General USE Short-circuit protecti Ambient conditions Temperature | for three-phase AC mot Contactor on fuse, 600V High fault Standard fault | tor | 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class min | HP HP A A kA A KA A | 40 75 100 165 100 200 J 10 250 RK5 -50 |

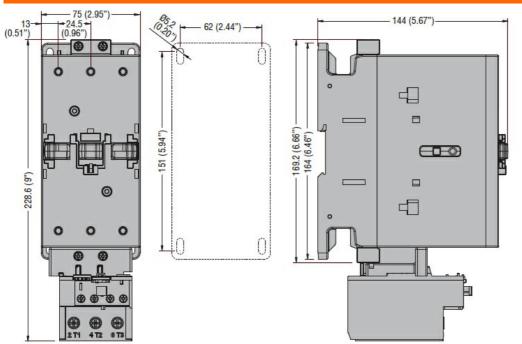
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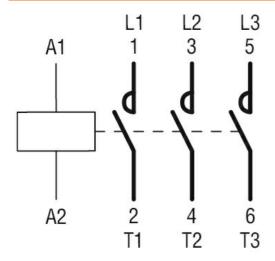


ENERGY AND AUTOMATION

Dimensions



Wiring diagrams



| Certifications and cor | npliance | |
|------------------------|------------------------|------------------|
| 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 | |
| ETIM classification | | |
| | | EC000066 - |
| ETIM 8.0 | | Power contactor, |
| | | AC switching |
| | | |