

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ, 575VAC



| Product designation | | | Power contactor |
|---|--------------------|-----|-----------------|
| Product type designation | | | BF32 |
| Contact characteristics | | | |
| Number of poles | | Nr. | 3 |
| 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 | 56 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 56 |
| | AC-1 (≤55°C) | Α | 45 |
| | AC-1 (≤70°C) | Α | 40 |
| | AC-3 (≤440V ≤55°C) | Α | 32 |
| | AC-4 (400V) | Α | 13.5 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 8.8 |
| | 400V | kW | 16 |
| | 415V | kW | 17 |
| | 440V | kW | 17 |
| | 500V | kW | 20 |
| | 690V | kW | 22 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 21 |
| | 400V | kW | 36 |
| | 500V | kW | 45 |
| | 690V | kW | 62 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | Α | 30 |
| | 48V | Α | 26 |
| | 75V | Α | 22 |
| | 110V | Α | 8 |
| | 220V | Α | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | Α | 32 |
| | 48V | Α | 32 |
| | 75V | Α | 28 |
| | 110V | Α | 25 |
| | 220V | Α | 3 |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | Α | 32 |
| | 48V | Α | 32 |
| | 75V | Α | 32 |
| | 110V | , , | 02 |



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| | 220V | Α | 23 | |
|---|-------------|--------------|----------|--|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | | |
| | ≤24V | Α | _ | |
| | 48V | Α | _ | |
| | 75V | Α | _ | |
| | 110V | Α | _ | |
| | 220V | Α | _ | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | | |
| | ≤24V | Α | 20 | |
| | 48V | Α | 17 | |
| | 75V | Α | 15 | |
| | 110V | Α | 2,5 | |
| | 220V | Α | _ | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | | |
| | ≤24V | Α | 25 | |
| | 48V | Α | 22 | |
| | 75V | A | 20 | |
| | 110V | A | 15 | |
| | 220V | A | 3 | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 22U V | | J | |
| TEO MAX CUITETILIE III DOG-DOG WILLI LIN 2 TOMS WILL 3 POIES III SELIES | ≤24V | ٨ | 30 | |
| | ≤24V 48V | A | 30 | |
| | | A | 28 | |
| | 75V | A | 28 | |
| | 110V | A | 20 | |
| | 220V | Α | 23 | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | | |
| | ≤24V | Α | _ | |
| | 48V | Α | _ | |
| | 75V | Α | _ | |
| | 110V | Α | _ | |
| | 220V | Α | _ | |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 320 | |
| Protection fuse | | | | |
| | gG (IEC) | Α | 63 | |
| | aM (IEC) | Α | 32 | |
| Making capacity (RMS value) | | Α | 320 | |
| Breaking capacity at voltage | | | | |
| | 440V | Α | 256 | |
| | 500V | Α | 240 | |
| | 690V | Α | 192 | |
| Resistance per pole (average value) | | mΩ | 2 | |
| Power dissipation per pole (average value) | | | | |
| | Ith | W | 6 | |
| | AC-3 | W | 2 | |
| Tightening torque for terminals | 7.0 0 | V V | | |
| rightering torque for terminals | min | Nm | 2.5 | |
| | min | | 2.5 3 | |
| | max | Nm Ibin | | |
| | min | lbin Ibin | 1.8 | |
| Tightoning tours for sail town in al | max | Ibin | 2.2 | |
| Tightening torque for coil terminal | | | 0.0 | |
| | min | Nm | 0.8 | |
| | max | Nm | 1 | |
| | min | lbin | 8.0 | |
| | | | | |



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| | | max | Ibin | 0.74 |
|------------------------|--|-----------------|----------|--------------------------|
| Max number of wires | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | |
| | | max | | 6 |
| | Flexible w/o lug conductor section | | 2 | 0.5 |
| | | min | mm² | 2.5 |
| | Florible alw lug conductor costion | max | mm² | 16 |
| | Flexible c/w lug conductor section | min | mm² | 1 |
| | | min max | mm² | 10 |
| | Flexible with insulated spade lug conductor section | | 111111 | 10 |
| | r lexible with insulated space lug conductor section | min | mm² | 1 |
| | | max | mm² | 10 |
| D (| | | | IP20 when |
| Power terminal protec | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 414 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 6 |
| Operations | | | | |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 1600000 |
| Safety related data | 40 Leave L'es to FN//00 40400 4 | | | |
| Performance level B1 | 10d according to EN/ISO 13489-1 | | | 4000000 |
| | | rated load | cycles | 1600000 |
| Mirror contate coord | ling to IEC/EN 609474-4-1 | nechanical load | cycles | 20000000 |
| EMC compatibility | illig to IEC/EN 609474-4-1 | | | yes |
| AC coil operating | | | | yes |
| Rated AC voltage at 6 | 60Hz | | V | 575 |
| AC operating voltage | | | • | 010 |
| 7.0 operaning remage | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | • • | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| | | max | %Us | 55 |
| AC average coil cons | • | | | |
| | of 60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 75 |
| <u></u> | 10000 5011 | holding | VA | 9 |
| Dissipation at holding | | | W | 2.5 |
| Max cycles frequency | | | | 2000 |
| Mechanical operation | | | cycles/h | 3600 |
| Operating times | | | | |



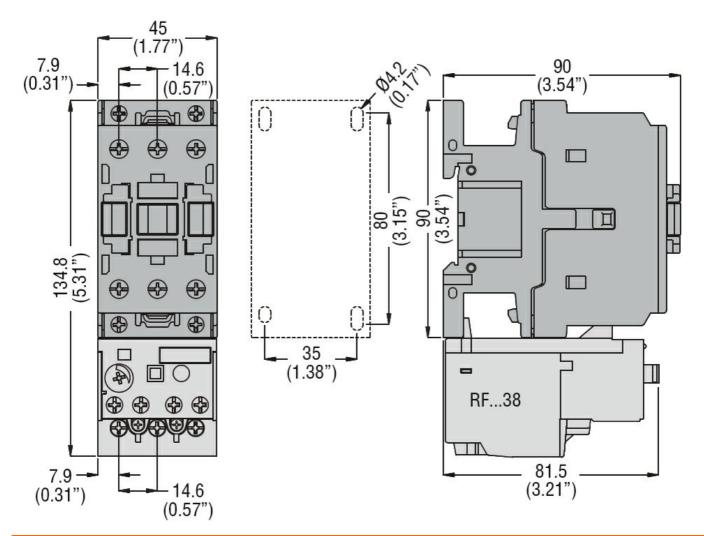


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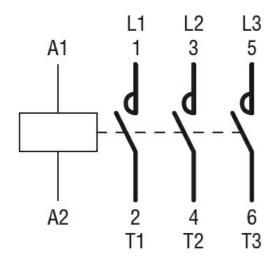
| Average time for Us of | ontrol | | | | |
|-----------------------------|-------------------------|------------|-----------------------|------|----------|
| · · | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 8 |
| | | | max | ms | 24 |
| | | Opening NO | | | |
| | | | min | ms | 5 |
| | | 0 | max | ms | 15 |
| | | Closing NC | • | | 0 |
| | | | min max | ms | 9 |
| | | Opening NC | IIIax | ms | 20 |
| | | Opening NC | min | ms | 9 |
| | | | max | ms | 17 |
| UL technical data | | | max | 1110 | |
| |) for three-phase AC mo | tor | | | |
| • | - | | at 480V | Α | 27 |
| | | | at 600V | Α | 27 |
| Yielded mechanical pe | erformance | | | | |
| | for single-phase AC m | notor | | | |
| | | | 110/120V | HP | 3 |
| | | | 230V | HP | 7.5 |
| | for three-phase AC mo | otor | | | |
| | | | 200/208V | HP | 10 |
| | | | 220/230V | HP | 10 |
| | | | 460/480V | HP | 20 |
| Canaral LICE | | | 575/600V | HP | 25 |
| General USE | Contactor | | | | |
| | Contactor | | AC current | Α | 55 |
| Short-circuit protection | n fuse 600V | | AO cuitetti | | |
| Onort official protection | High fault | | | | |
| | riigiriaait | | Short circuit current | kA | 100 |
| | | | Fuse rating | A | 100 |
| | | | Fuse class | | J |
| | Standard fault | | | | |
| | | | Short circuit current | kA | 5 |
| | | | Fuse rating | Α | 125 |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| | Operating temperature |) | | | |
| | | | min | °C | -50 |
| | | | max | °C | 70 |
| | Storage temperature | | , | 0.0 | 00 |
| | | | min | °C | -60 |
| May altitude | | | max | °C | 80 |
| Max altitude | on | | | m | 3000 |
| Resistance & Protection | OIT | | | | 3 |
| Pollution degree Dimensions | | | | | 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 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1



BF3200A57560

AC switching

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 60HZ,

| | UL 60947-4-1 | |
|---------------------|--------------|--------------------------------|
| Certificates | | |
| | CCC | |
| | cULus | |
| | EAC | |
| ETIM classification | | |
| ETIM 8.0 | | EC000066 - Power contactor, |