



| Product designation | | | Power contactor |
|--|--------------------|--------|-----------------|
| Product type designation Contact characteristics | | | BF32 |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | ιτν | 0 |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | max | A | 56 |
| Operational current le | | | 00 |
| | AC-1 (≤40°C) | А | 56 |
| | AC-1 (≤55°C) | A | 45 |
| | AC-1 (≤70°C) | A | 40 |
| | AC-3 (≤440V ≤55°C) | A | 32 |
| | AC-4 (400V) | А | 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 $L/R \le 1$ ms with 1 poles in series | | | |
| | ≤24V | А | 30 |
| | 48V | A | 26 |
| | 75V | A | 22 |
| | 110V | A | 8 |
| | 220V | A | _ |
| IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series | -0.434 | • | 00 |
| | ≤24V | A | 32 |
| | 48V | A | 32 |
| | 75V 110V | A | 28 25 |
| | 220V | A A | 25 3 |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | 2200 | A | 3 |
| $\Gamma \subset \Pi$ as current is in DCT with $L/R \ge \Pi$ is with 3 poles in series | ≤24V | ۸ | 32 |
| | ≤24∨ 48V | A A | 32 32 |
| | 48V 75V | A | 32 32 |
| | 110V | A | 32 27 |
| | 1100 | A | Z1 |



110V

А

2.5

| ENERGY AND AUTOMATION | | | | |
|---|------|---|----|--|
| | 220V | А | 23 | |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | | |
| | ≤24V | А | _ | |
| | 48V | А | _ | |
| | 75V | А | _ | |
| | 110V | А | _ | |
| | 220V | А | - | |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series | | | | |
| | ≤24V | А | 20 | |
| | 48V | А | 17 | |
| | 75V | А | 15 | |

| | 1100 | A | 2,5 |
|--|----------|---|-----|
| | 220V | Α | - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | А | 25 |
| | 48V | А | 22 |
| | 75V | А | 20 |
| | 110V | А | 15 |
| | 220V | А | 3 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | А | 30 |
| | 48V | А | 28 |
| | 75V | А | 28 |
| | 110V | А | 20 |
| | 220V | А | 23 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | А | _ |
| | 48V | А | _ |
| | 75V | А | _ |
| | 110V | А | _ |
| | 220V | А | - |
| Short-time allowable current for 10s (IEC/EN60947-1) | | А | 320 |
| Protection fuse | | | |
| | gG (IEC) | А | 63 |
| | , | - | |

aM (IEC) А 32 Making capacity (RMS value) А 320 Breaking capacity at voltage 440V А 256 500V 240 А 690V А 192 Resistance per pole (average value) mΩ 2 Power dissipation per pole (average value) lth W 6 AC-3 W 2 Tightening torque for terminals 2.5 min Nm Nm 3 max min Ibin 1.8 2.2 max lbin

Tightening torque for coil terminal

BF3200L024

0.8

0.8

1

Nm

Nm

lbin

min

max

min



| Max number of wires a | imultaneously connectable | max | lbin Nr. | 0.74 |
|--------------------------|---|-----------------|-------------|-----------------|
| | | | INF. | Ζ |
| Conductor section | AN/C/Komil | | | |
| | AWG/Kcmil | | | 6 |
| | Flexible w/o lug conductor section | max | | 0 |
| | Flexible w/o lug conductor section | min | mm² | 2.5 |
| | | max | mm² | 16 |
| | Flexible c/w lug conductor section | IIIdA | | 10 |
| | Trexible C/Wildg conductor section | min | mm² | 1 |
| | | max | mm² | 10 |
| | Flexible with insulated spade lug conductor section | | | 10 |
| | The space by conductor section | min | mm² | 1 |
| | | max | mm² | 10 |
| | | тах | | IP20 when |
| Power terminal protect | tion according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | , |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | | | Screw / DIN rai |
| Fixing | | | | 35mm |
| Weight | | | g | 568 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 6 |
| Operations | | | | |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 1600000 |
| Safety related data | | | | |
| | Dd according to EN/ISO 13489-1 | | | |
| | - | rated load | cycles | 1600000 |
| | n | nechanical load | cycles | 20000000 |
| Mirror contats accordir | ng to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | | | | yes |
| DC coil operating | | | | • |
| DC rated control voltage | ge | | V | 24 |
| DC operating voltage | | | | |
| | pick-up | | | |
| | - | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 10 |
| | | max | %Us | 40 |
| Average coil consump | tion ≤20°C | | | |
| | | in-rush | W | 2.4 |
| | | holding | W | 2.4 |
| Max cycles frequency | | | | |
| Mechanical operation | | | cycles/h | 3600 |
| Operating times | | | | |
| Average time for Us co | ontrol | | | |
| | | | | |
| | in AC Closing NO | | | |

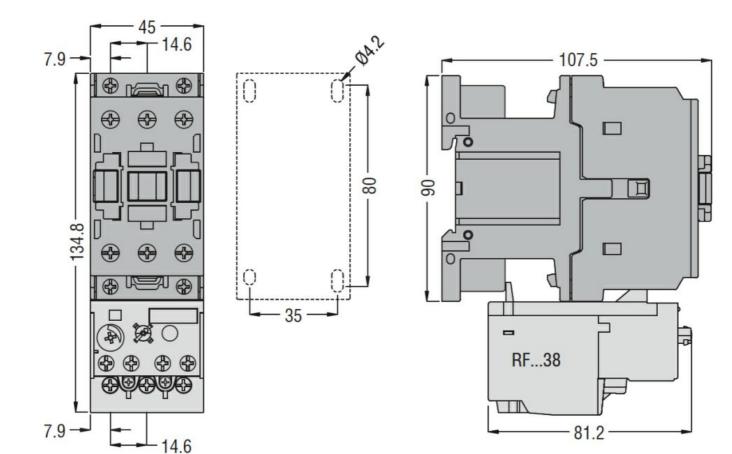


| | | min | ms | 8 |
|--------------------------------|-----------------------------|--------------------------------------|---------|----------|
| | | max | ms | 24 |
| | Opening | | | F |
| | | min | ms | 5 |
| | Closing N | max | ms | 15 |
| | Closing | min | ms | 9 |
| | | max | ms | 20 |
| | Opening | | | |
| | | min | ms | 9 |
| | | max | ms | 17 |
| | in DC | | | |
| | Closing N | NO | | |
| | | min | ms | 76 |
| | | max | ms | 92 |
| | Opening | | | |
| | | min | ms | 16 |
| | | max | ms | 20 |
| JL technical data |)) for three phase AQ mater | | | |
| -uil-load current (FLA | A) for three-phase AC motor | | ٨ | 27 |
| | | at 480V at 600V | A A | 27 27 |
| rielded mechanical p | performance | ai 600V | А | ۷۱ |
| noidea mechanical f | for single-phase AC motor | | | |
| | for single-phase AC motor | 110/120V | HP | 3 |
| | | 230V | HP | 7.5 |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 10 |
| | | 220/230V | HP | 10 |
| | | 460/480V | HP | 20 |
| | | 575/600V | HP | 25 |
| General USE | | | | |
| | Contactor | | | |
| | | AC current | А | 55 |
| Short-circuit protection | | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | A | 100 |
| | Ctondard fault | Fuse class | | J |
| | Standard fault | Chart size it surrent | L A | F |
| | | Short circuit current Fuse rating | kA A | 5 125 |
| Ambient conditions | | | A | 120 |
| Temperature | | | | |
| iompolatalo | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | 70 |
| | Storage temperature | | | |
| | . . | min | °C | -60 |
| | | max | °C | 80 |
| Max altitude | | | m | 3000 |
| Resistance & Protect | tion | | | |
| | | | | 3 |
| Pollution degree Dimensions | | | | U |

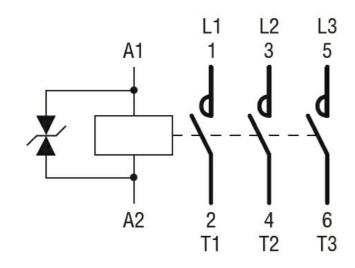
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Wiring diagrams



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 |
| | UL 60947-4-1 |
| Certificates | |
| | CCC |
| | |

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CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching