

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC



| | | | • |
|---|--------------------|-----|-----------------|
| 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 | Α | 27 |
| | | | |



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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 | 220 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 number of cities : | nimultan a quali, a anno ata bila | max | Ibin | 0.74 |
|---|--|------------------------------|------------------------------------|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | AWG/Kcmil | | | |
| | AWG/Rettill | max | | 6 |
| | Flexible w/o lug conductor section | max | | |
| | o | min | mm² | 2.5 |
| | | max | mm² | 16 |
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1 |
| | | max | mm² | 10 |
| | Flexible with insulated spade lug conductor section | | | |
| | | min | mm² | 1 |
| | | max | mm² | 10 |
| Power terminal protec | ction according to IEC/EN 60529 | | | IP20 when properly wired |
| Mechanical features | | | | property who |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 432 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| On anations | | max | | 6 |
| Operations Machaniae Life | | | ovoloo | 2000000 |
| Mechanical life Electrical life | | | cycles cycles | 20000000 1600000 |
| Safety related data | | | Cycles | 1000000 |
| • | 0d according to EN/ISO 13489-1 | | | |
| | | | | |
| | | rated load | cycles | 1600000 |
| | m | rated load echanical load | cycles cycles | 1600000 20000000 |
| Mirror contats accordi | ing to IEC/EN 609474-4-1 | | - | |
| | | | - | 20000000 |
| EMC compatibility | | | - | 20000000 yes |
| EMC compatibility AC coil operating Rated AC voltage at 5 | ing to IEC/EN 609474-4-1 | | - | 20000000 yes |
| EMC compatibility AC coil operating Rated AC voltage at 5 | ing to IEC/EN 609474-4-1 50/60Hz | | cycles | 20000000 yes yes |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz | | cycles | 20000000 yes yes |
| EMC compatibility AC coil operating Rated AC voltage at 5 | ing to IEC/EN 609474-4-1 50/60Hz | echanical load | v | 20000000 yes yes 24 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz | echanical load | v V | 20000000 yes yes 24 |
| Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5 AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up | echanical load | v | 20000000 yes yes 24 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz | echanical load min max | v V %Us %Us | 20000000 yes yes 24 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up | echanical load min max min | v V %Us %Us %Us | 20000000 yes yes 24 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up | echanical load min max | v V %Us %Us | 20000000 yes yes 24 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up | echanical load min max min | v V %Us %Us %Us | 20000000 yes yes 24 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | echanical load min max min | v V %Us %Us %Us | 20000000 yes yes 24 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | min max min max | v %Us %Us %Us %Us | 20000000 yes yes 24 80 110 20 55 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | min max min max | v V %Us %Us %Us %Us | 20000000 yes yes 24 80 110 20 55 |
| EMC compatibility AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 60Hz pick-up | min max min max | v V %Us %Us %Us %Us | 20000000 yes yes 24 80 110 20 55 |

of 50/60Hz coil powered at 50Hz





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| | | in-rush | VA | 75 |
|--|---------------------------------|-----------------------|-----------|------------|
| | | holding | VA | 9 |
| | of 50/60Hz coil powered at 60Hz | <u> </u> | | _ |
| | • | in-rush | VA | 70 |
| | | holding | VA | 6.5 |
| | of 60Hz coil powered at 60Hz | <u> </u> | | |
| | 0. 00 <u> </u> | in-rush | VA | 75 |
| | | holding | VA | 9 |
| Dissipation at holding ≤ | ≤20°C 50Hz | <u> </u> | W | 2.5 |
| Max cycles frequency | | | | |
| Mechanical operation | | | cycles/h | 3600 |
| Operating times | | | c y c.c.c | |
| Average time for Us co | entrol | | | |
| 7 trolago amo los co co | in AC | | | |
| | Closing NO | | | |
| | Closhing IVO | min | ms | 8 |
| | | max | ms | 24 |
| | Opening NO | IIIdX | 1113 | 4 7 |
| | Opening NO | min | ms | 5 |
| | | max | | 5 15 |
| | Closing NC | IIIdX | ms | 15 |
| | Closing NC | min | | 0 |
| | | | ms | 9 |
| | Opening NC | max | ms | 20 |
| | Opening NC | | | 0 |
| | | min | ms | 9 |
| UL technical data | | max | ms | 17 |
| | for three whose AC motor | | | |
| Full-load current (FLA) | for three-phase AC motor | -+ 400\/ | ۸ | 0.7 |
| | | at 480V | A | 27 |
| NO. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | at 600V | Α | 27 |
| Yielded mechanical pe | | | | |
| | for single-phase AC motor | 44044004 | | • |
| | | 110/120V | HP | 3 |
| | | 230V | HP | 7.5 |
| | for three-phase AC motor | | | 4.0 |
| | | 200/208V | HP | 10 |
| | | 220/230V | HP | 10 |
| | | 460/480V | HP | 20 |
| | | 575/600V | HP | 25 |
| General USE | - | | | |
| | Contactor | | | |
| | | AC current | Α | 55 |
| Short-circuit protection | | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 100 |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 125 |
| Ambient conditions | | | | |
| Temperature | | | | |
| • | Operating temperature | | | |
| | | min | °C | -50 |
| | | | | |

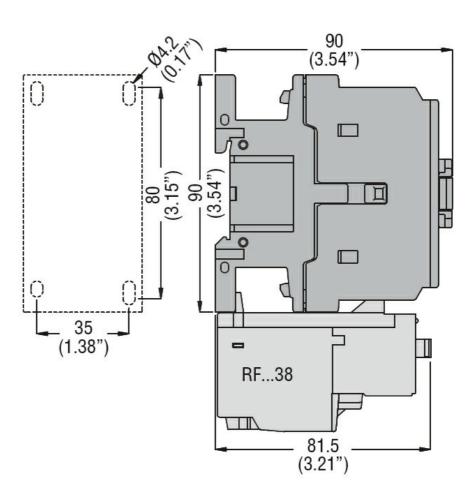


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| | max | °C | 70 |
|-------------------------|-----|----|------|
| Storage temperature | | | |
| | min | °C | -60 |
| | max | °C | 80 |
| Max altitude | | m | 3000 |
| Resistance & Protection | | | |
| Pollution degree | | | 3 |
| Dimensions | | | |

7.9 (0.31") — (1.77") — 14.6 — (0.57") — (0.57") — (1.77

- 14.6 (0.57")

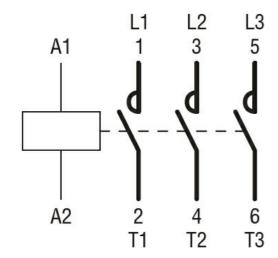


Wiring diagrams

7.9 - (0.31")

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ,



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