

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, FLA 30A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT



| Product designation Product type designat | ion | | | | Power contactor DPBF18 |
|---|-------------------------|--------------------------------------|---------------------------------|---------------------------------|--|
| Contact characteristics | S | | | | |
| Number of poles | | | | Nr. | 3 |
| Operational frequency | 1 | | | | |
| | | | min | Hz | 25 |
| | | | max | Hz | 400 |
| Mechanical features | | | | | |
| Operating position | | | | | |
| | | | normal allowable | | Vertical plan ±30° |
| | | | allowable | | Screw / DIN rail |
| Fixing | | | | | 35mm |
| Weight | | | | g | 364 |
| Operations | | | | | |
| Mechanical life | | | | cycles | 20000000 |
| Electrical life | | | | cycles | 1600000 |
| Safety related data | | | | | |
| Performance level B1 | 0d according to EN/IS | 3O 13489-1 | | | |
| | | | rated load | cycles | 1600000 |
| | | | mechanical load | cycles | 20000000 |
| Mirror contats accordi | ng to IEC/EN 609474 | -4-1 | | | yes |
| EMC compatibility | | | | | yes |
| AC coil operating | | | | | |
| Rated AC voltage at 5 | | | | V | 24 |
| Rated AC voltage at 6 | 0Hz | | | V | 24 |
| AC operating voltage | | | | | |
| | of 50/60Hz coil pow | | | | |
| | | pick-up | | | |
| | | | | | |
| | | | min | %Us | 80 |
| | | 1 | min max | %Us %Us | 80 110 |
| | | drop-out | max | %Us | 110 |
| | | drop-out | max min | %Us %Us | 110 20 |
| | of FO/COLIT coil power | · | max | %Us | 110 |
| | of 50/60Hz coil pow | vered at 60Hz | max min | %Us %Us | 110 20 |
| | of 50/60Hz coil pow | · | max min max | %Us %Us %Us | 110 20 55 |
| | of 50/60Hz coil pow | vered at 60Hz | max min max min | %Us %Us %Us | 110 20 55 85 |
| | of 50/60Hz coil pow | vered at 60Hz pick-up | max min max | %Us %Us %Us | 110 20 55 |
| | of 50/60Hz coil pow | vered at 60Hz | max min max min max | %Us %Us %Us %Us %Us | 110 20 55 85 110 |
| | of 50/60Hz coil pow | vered at 60Hz pick-up | max min max min max min max | %Us %Us %Us %Us %Us %Us %Us | 110 20 55 85 110 20 |
| | | vered at 60Hz pick-up drop-out | max min max min max | %Us %Us %Us %Us %Us | 110 20 55 85 110 |
| | of 50/60Hz coil powered | vered at 60Hz pick-up drop-out | max min max min max min max | %Us %Us %Us %Us %Us %Us %Us | 110 20 55 85 110 20 |
| | | vered at 60Hz pick-up drop-out | max min max min max min max | %Us %Us %Us %Us %Us %Us %Us %Us | 110 20 55 85 110 20 55 |
| | | vered at 60Hz pick-up drop-out | max min max min max min max | %Us %Us %Us %Us %Us %Us %Us | 110 20 55 85 110 20 |





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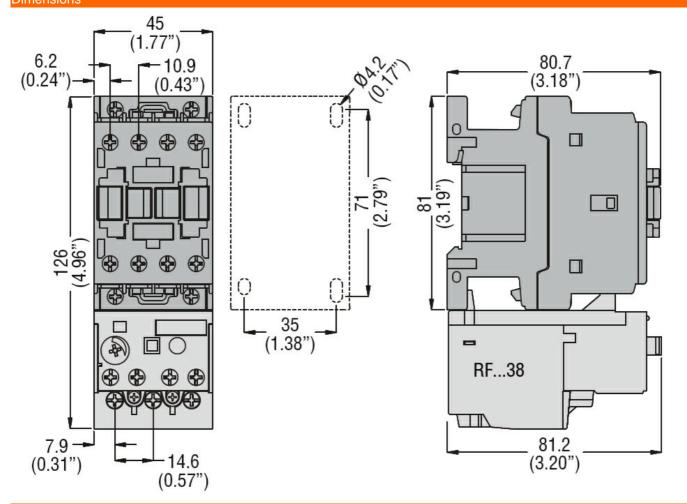
| | | min | %Us | 20 |
|----------------------|---------------------------------|-----------------------|----------|------|
| | | max | %Us | 55 |
| AC average coil co | nsumption at 20°C | max | 7000 | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | 5. 55, 55. <u>1</u> | in-rush | VA | 75 |
| | | holding | VA | 9 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | • | in-rush | VA | 70 |
| | | holding | VA | 6.5 |
| | of 60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 75 |
| | | holding | VA | 9 |
| Dissipation at holdi | _ | | W | 2.5 |
| lax cycles frequer | | | | |
| lechanical operati | on | | cycles/h | 3600 |
| Operating times | | | | |
| verage time for U | | | | |
| | in AC | | | |
| | Closing NO | | | 0 |
| | | min | ms | 8 |
| | Opening NO | max | ms | 24 |
| | Opening NO | min | ms | 10 |
| | | max | ms | 20 |
| | Closing NC | max | 1110 | 20 |
| | Closing 140 | min | ms | 14 |
| | | max | ms | 28 |
| | Opening NC | | | |
| | , , | min | ms | 7 |
| | | max | ms | 18 |
| JL technical data | | | | |
| Full-load current (F | LA) for three-phase AC motor | | | |
| | | at 600V | Α | 30 |
| ocked rotor currer | | | Α | 180 |
| ielded mechanica | • | | | |
| | for single-phase AC motor | | | _ |
| | | 110/120V | HP | 2 |
| | | 230V | HP | 5 |
| | for three-phase AC motor | 000/0001 | . I.B | 7.5 |
| | | 200/208V | HP | 7.5 |
| | | 220/230V | HP | 7.5 |
| | | 460/480V | HP | 15 |
| Conoral LICE | | 575/600V | HP | 20 |
| General USE | Contactor | | | |
| | Contactor | AC current | ٨ | 32 |
| | Auxiliany contacts | AC current | Α | 32 |
| | Auxiliary contacts | AC voltage | \/ | 600 |
| | | AC voltage | V | 600 |
| | | AC current | A | 10 |
| | | DC voltage | V | 250 |
| Thore directly | tion func. 600V | DC current | Α | 1 |
| Short-circuit protec | | | | |
| | Standard fault | Chart aire it a | LεΛ | E |
| | | Short circuit current | kA | 5 |



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| | | Fuse rating Fuse class | Α | 100 RK5 |
|--|---|---------------------------|----|-------------|
| | | | | |
| Contact rating of auxiliary contacts according to UL | | | | A600 - P600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| Operating temperatur | е | | | |
| | | min | °C | -50 |
| | | max | °C | 70 |
| Storage temperature | | | | |
| | | min | °C | -60 |
| | | max | °C | 80 |
| Max altitude | | | m | 3000 |
| Resistance & Protection | | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |

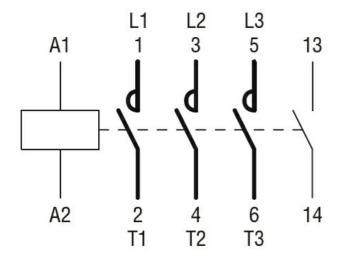


Wiring diagrams



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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-34

UL 60947-1

UL 60947-4-1

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching