

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 400VAC, 2NO AND 2NC



| Draduat designation | | | Dower contactor |
|--|--------------------|------|-------------------------|
| Product designation Product type designation | | | Power contactor BF18 |
| Contact characteristics | | | טו וט |
| Number of poles | | Nr. | 4 |
| 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 | 32 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 32 |
| | AC-1 (≤55°C) | Α | 26 |
| | AC-1 (≤70°C) | Α | 23 |
| | AC-3 (≤440V ≤55°C) | Α | 18 |
| | AC-4 (400V) | Α | 8.5 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 12 |
| | 400V | kW | 21 |
| | 500V | kW | 26 |
| | 690V | kW | 36 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 200 |
| Protection fuse | | | |
| | gG (IEC) | Α | 32 |
| | aM (IEC) | Α | 20 |
| Making capacity (RMS value) | | Α | 180 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 144 |
| | 500V | Α | 120 |
| | 690V | Α | 94 |
| Resistance per pole (average value) | | mΩ | 2.5 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 2.6 |
| | AC-3 | W | 0.8 |
| Tightening torque for terminals | | | |
| | min | Nm | 1.5 |
| | max | Nm | 1.8 |
| | min | lbin | 1.1 |
| | max | Ibin | 1.5 |
| Tightening torque for coil terminal | | _ | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 0.8 |
| | max | Ibin | 0.74 |
| Max number of wires simultaneously connectable | | Nr. | 2 |



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| Conductor section | | | | |
|------------------------------------|--|-----------------|------------|-----------------------------|
| | AWG/Kcmil | | | |
| | | max | | 10 |
| | Flexible w/o lug conductor section | | 2 | 4 |
| | | min max | mm² mm² | 1 6 |
| | Flexible c/w lug conductor section | IIIdx | 111111 | · · |
| | Tioxibio of Wildy conductor cocion | min | mm² | 1 |
| | | max | mm² | 4 |
| | Flexible with insulated spade lug conduc | tor section | | |
| | | min | mm² | 1 |
| | | max | mm² | 4 |
| Power terminal protec | tion according to IEC/EN 60529 | | | IP20 when properly wired |
| Mechanical features | | | | property whea |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 370 |
| Operations | | | | 00000000 |
| Mechanical life Electrical life | | | cycles | 20000000 1600000 |
| Safety related data | | | cycles | 1600000 |
| | 0d according to EN/ISO 13489-1 | | | |
| | 34 4350 4m.g to 2 141 3 | rated load | cycles | 1600000 |
| | | mechanical load | cycles | 20000000 |
| EMC compatibility | | | | yes |
| AC coil operating | 2 (2 2 1) | | | |
| Rated AC voltage at 5 | 0/60Hz | | V | 400 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | | | |
| | P. 5.1. 3/P | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| | of 50/60Hz coil powered at 60Hz | max | %Us | 55 |
| | pick-up | | | |
| | ριοίτ αρ | min | %Us | 85 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| A C | wanting at 20°C | max | %Us | 55 |
| AC average coil consu | • | | | |
| | of 50/60Hz coil powered at 50Hz | 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 | | | |



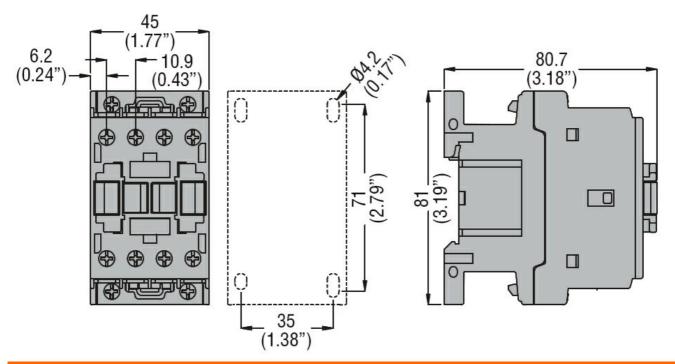


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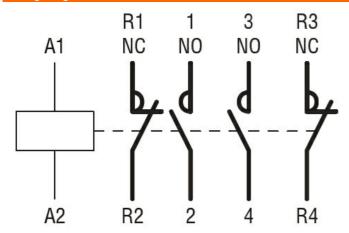
| Noticing | | | in-rush | VA | 75 |
|--|-------------------------|---------------------------|------------|----------|------|
| Max podes frequency Cycles/h 3600 Opparating times In AC Closing NO min ms ms max ms ms 24 Opening NO min ms ms 24 Opening NO min ms 20 Closing NC min ms 20 Closing NC min ms 32 Opening NC min ms 32 Opening NC min ms 32 UL technical data max ms 18 UL technical data ms 7 Rated operational voltage AC (UL) V 600 Full-load current (FLA) for three-phase AC motor at 480V A 14 Full-load current (FLA) for three-phase AC motor at 480V A 17 Yielded mechanical performance for single-phase AC motor for single-phase AC motor 110/120V HP 3 for three-phase AC motor 2200/208V HP 5 480/480V HP 10 3575/600V HP 15 480/480V HP 10 3600 HP 15 480/480V HP 10 3600 HP 15 480/480V HP 10 3600 HP | | | holding | VA | 9 |
| Mechanical operation | | 20°C 50Hz | | W | 2.5 |
| Closing NO | | | | | |
| Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO min ms 10 max ms 20 Closing NC min ms 14 max ms 20 Closing NC min ms 14 max ms 28 Opening NC min ms 7 max ms 18 Use the field of the e-phase AC motor Full-load current (FLA) for three-phase AC motor for single-phase AC motor for single-phase AC motor for three-phase AC motor for three-phase AC motor Contactor AC current | | | | cycles/h | 3600 |
| in AC Closing NO min ms 8 max ms 24 | | | | | |
| Closing NO | Average time for Us co | | | | |
| Max a max Max a max a max Max a max a max Max a max | | | | | |
| Max | | Closing NO | | | |
| Opening NO | | | min | ms | |
| Min m | | | max | ms | 24 |
| Closing NC | | Opening NO | | | |
| Closing NC | | | | | |
| Min max ms 14 max ms 28 | | | max | ms | 20 |
| Max | | Closing NC | | | |
| Copening NC min ms 7 ms 78 ms 18 ms 78 ms 18 ms 78 ms 18 ms 78 ms 18 ms | | | | | |
| Min max | | 0 1 110 | max | ms | 28 |
| Max | | Opening NC | | | _ |
| V 600 | | | | | |
| Rated operational voltage AC (UL) | | | max | ms | 18 |
| Full-load current (FLA) for three-phase AC motor at 480V | | A O (111) | | | |
| A | | | | V | 600 |
| At 600V A 17 | Full-load current (FLA) | for three-phase AC motor | | _ | |
| Yielded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 for three-phase AC motor 200/208V HP 5 220/230V HP 5 460/480V HP 10 575/600V HP 15 General USE Ambient conditions Temperature 0perating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | | | |
| For single-phase AC motor 110/120V | | | at 600V | A | |
| 110/120V HP 1 1 230V HP 3 3 110/120V HP 5 1200/208V HP 5 1200/208V HP 5 1200/208V HP 5 1200/208V HP 10 10 100/208V HP 10 10 100/208V HP 15 10 100/208V HP 15 10 10 10 10 10 10 10 | Yielded mechanical per | | | | |
| Contactor Cont | | for single-phase AC motor | | | |
| For three-phase AC motor 200/208V | | | | | |
| 200/208V | | | 230V | HP | 3 |
| 220/230V | | for three-phase AC motor | | | |
| A60/480V HP 10 | | | | | |
| S75/600V HP 15 | | | | | |
| General USE AC current A 32 Ambient conditions Temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude Resistance & Protection Pollution degree | | | | | |
| Contactor AC current A 32 Ambient conditions Temperature Min or C or 70 -50 or 70 Storage temperature min or C or 70 -60 or 80 Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | 575/600V | HP | 15 |
| AC current | General USE | | | | |
| Ambient conditions | | Contactor | | _ | |
| Operating temperature | | | AC current | Α | 32 |
| Operating temperature min max °C or 70 Storage temperature min max °C or -60 or | | | | | |
| min min max °C 70 Storage temperature min °C -60 max Max altitude m 3000 Resistance & Protection 3 | I emperature | | | | |
| Max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3 | | Operating temperature | | 0.5 | |
| Storage temperature min max °C -60 max -60 max Max altitude m 3000 Resistance & Protection 3 Pollution degree 3 | | | | | |
| min min max °C -60 rection Max altitude m 3000 Resistance & Protection 3 | | <u></u> | max | ,C | 70 |
| Max altitudemax°C80Mesistance & Protectionm3000Pollution degree3 | | Storage temperature | | 0.5 | • |
| Max altitude m 3000 Resistance & Protection Pollution degree 3 | | | | | |
| Resistance & Protection Pollution degree 3 | N. A. Life . | | max | | |
| Pollution degree 3 | | | | m | 3000 |
| · · · · · · · · · · · · · · · · · · · | | n ' | | | |
| Dimensions | | | | | 3 |
| | Dimensions | | | | |

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 400VAC, 2NO AND 2NC



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

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching