



| Product designation | | | Power contacto |
|---|---|------|----------------|
| Product type designation | | | BF38 |
| Contact characteristics | | | |
| 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 | 56 |
| Operational current le | | | |
| | AC-1 (≤40°C) | А | 56 |
| | AC-1 (≤40°C) with 16mm² wire and fork end | lugA | 60 |
| | AC-1 (≤55°C) | A | 45 |
| | AC-1 (≤55°C) with 16mm² wire and fork end | lugA | 48 |
| | AC-1 (≤70°C) | Ă | 40 |
| | AC-1 (≤70°C) with 16mm² wire and fork end | lugA | 42 |
| | , AC-3 (≤440V ≤55°C) | Ă | 38 |
| | AC-4 (400V) | А | 15.5 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 21 |
| | 400V | kW | 36 |
| | 500V | kW | 45 |
| | 690V | kW | 62 |
| Short-time allowable current for 10s (IEC/EN6 | | А | 320 |
| Protection fuse | | | |
| | gG (IEC) | А | 63 |
| | aM (IEC) | A | 40 |
| Making capacity (RMS value) | | A | 380 |
| Breaking capacity at voltage | | | |
| Produing oupdoily at rollago | 440V | А | 304 |
| | 500V | A | 240 |
| | 690V | A | 192 |
| Resistance per pole (average value) | | mΩ | 2 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 6 |
| | AC-3 | Ŵ | 2.9 |
| Tightening torque for terminals | NO 3 | * * | 2.0 |
| | min | Nm | 2.5 |
| | max | Nm | 3 |
| | min | Ibin | 3 1.8 |
| | | Ibin | 2.2 |
| Tightening torque for coil terminal | max | | 2.2 |
| | min | Nm | 0.9 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |



BF38T2A23060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ, 230VAC, 2NO AND 2NC

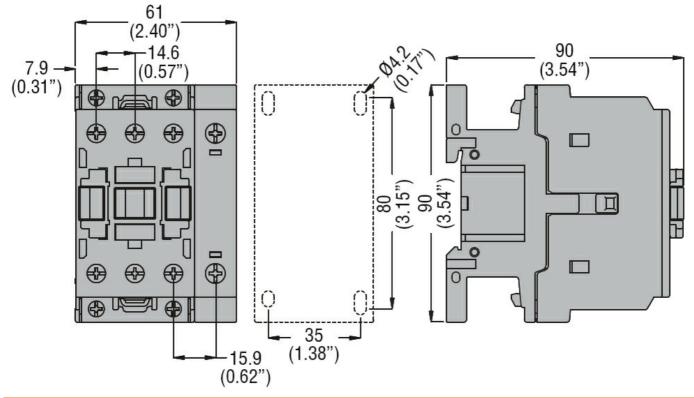
| | | min | lbin Ibin | 0.8 |
|--|---|---------------------|--------------|-----------------------------|
| Max number of wirco | simultaneously connectable | max | lbin Nr. | 0.74 |
| Conductor section | | | INI. | 2 |
| | AWG/Kcmil | | | |
| | | max | | 6 |
| | Flexible w/o lug conductor section | | | |
| | - | 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 | | 2 | |
| | | min | mm² | 1 |
| | | max | mm² | 10 |
| • | ction according to IEC/EN 60529 | | | IP20 when properly wired |
| Mechanical features | | | | |
| Operating position | | | | \/entirel |
| | | normal allowable | | Vertical plan ±30° |
| Fixing | | | | Screw / DIN rai 35mm |
| Weight | | | g | 504 |
| Conductor section | | | 3 | |
| | AWG/kcmil conductor section | | | |
| | | max | | 6 |
| Operations | | | | |
| Mechanical life | | | cycles | 2000000 |
| Electrical life | | | cycles | 1400000 |
| Safety related data | | | | |
| Performance level B1 | 0d according to EN/ISO 13489-1 | | _ | |
| | | rated load | cycles | 1400000 |
| | | mechanical load | cycles | 2000000 |
| | ing to IEC/EN 609474-4-1 | | | YES |
| EMC compatibility | | | | yes |
| AC coil operating Rated AC voltage at 6 | SOHz | | V | 230 |
| AC operating voltage | | | v | 200 |
| . Coporating voltage | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | L.a.r. all | 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 |
| | | | | • |
| | | holding | VA | 9 |
| Dissipation at holding | | | VA W | 9 2.5 |
| Dissipation at holding Max cycles frequency Mechanical operation | | | | 2.5 |



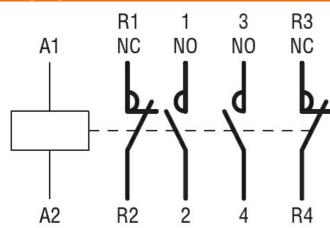
| Closing NO min ms 8 Opening NO min ms 24 Opening NO min ms 5 max ms 15 Closing NC min ms 11 max ms 29 11 Opening NC min ms 29 min ms 6 110 Opening NC max ms 29 Opening NC min ms 6 max ms 14 10 UL technical data max ms 14 Full-load current (FLA) for three-phase AC motor at 800V A 40 at 600V A 32 110/120V HP 3 Yielded mechanical performance for single-phase AC motor 200/208V HP 10 220/230V HP 10 220/230V HP 10 220/230V HP 10 220/230V HP 10 | Average time for Us co | | | | |
|---|-------------------------|---------------------------|------------|----|-----|
| $\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$ | | | | | |
| $\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$ | | | min | ms | 8 |
| Opening NO min ms 5 max ms 15 Closing NC min ms 11 max ms 29 Opening NC min ms 6 max ms 14 UL technical data max ms 14 Full-load current (FLA) for three-phase AC motor at 480V A 40 at 600V A 32 32 Yielded mechanical performance 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 15 460/480V HP 30 General USE Contactor AC current A 55 Ambient conditions max *C -50 Temperature min *C -50 Max attitude max *C 60 Max attitude max *C 60 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| $\begin{tabular}{ c c c c c } & & & & & & & & & & & & & & & & & & &$ | | Opening NO | | | |
| Closing NC min ms 11 Opening NC min ms 29 Opening NC min ms 6 max ms 14 UL technical data min ms 4 Full-load current (FLA) for three-phase AC motor at 480V A 40 Yielded mechanical performance for single-phase AC motor 110/120V HP 3 Yielded mechanical performance for three-phase AC motor 200/208V HP 10 220/230V HP 15 460/480V HP 30 General USE Contactor AC current A 55 Ambient conditions min °C -50 Temperature min °C -50 Max altitude min °C -60 Max altitude min °C -60 | | | min | ms | 5 |
| $\begin{array}{c c c c c c c c } \hline & & & & & & & & & & & & & & & & & & $ | | | max | ms | 15 |
| $\begin{array}{c c c c c c c } & & & & & & & & & & & & & & & & & & &$ | | Closing NC | | | |
| Opening NCminms6maxms14UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA40at 480VA40at 480VA40at 480VA40at 600VA32Yielded mechanical performance for single-phase AC motorHP3200/208VHP10220/230VHP10220/230VHP10220/230VHP10220/230VHP10220/230VHP10220/230VHP10220/230VHP10220/230VHP30General USEcontactorMin°C-50min°C-50min°C-50min°C-50Min°C-50Min°C-50min°C-50min°C-50Min°C-50Min°C-50Min°C-50Min°C-50Min°C-50Min°C-50< | | | min | ms | 11 |
| min ms 6 Max ms 14 UL technical data | | | max | ms | 29 |
| max ms 14 UL technical data | | Opening NC | | | |
| UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 40 at 600V A 32 Yielded mechanical performance for single-phase AC motor 110/120V HP 3 32 for three-phase AC motor 110/120V HP 3 32 General USE 200/208V HP 10 220/230V HP 15 A60/480V HP 30 575/600V HP 30 General USE Contactor AC current A 55 Ambient conditions Temperature min °C -50 max °C 70 Storage temperature min °C -60 max %C 80 Max altitude m 3000 Resistance & Protection 3000 3000 | | | min | ms | |
| Full-load current (FLA) for three-phase AC motor at 480V A 40 at 600V A 32 Yielded mechanical performance for single-phase AC motor 110/120V HP 3 230V HP 7.5 7.5 10 220/28V HP 10 220/28V HP 10 220/200V HP 15 460/480V HP 30 General USE Contactor AC current A 55 Ambient conditions AC current A 55 Temperature Operating temperature min °C -50 Max altitude min °C -60 max °C 80 Max altitude m 3000 300 300 300 300 | | | max | ms | 14 |
| at 480V A 40 at 600V Yielded mechanical performance for single-phase AC motor 110/120V HP 3 230V HP 3 230V HP 3 230V HP 3 230V HP 3 230V HP 10 20/208V HP 10 220/208V HP 10 220/208V HP 10 20/203V HP 15 460/480V HP 30 5 General USE Contactor AC current A 55 Ambient conditions X X 55 Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection m 3000 | | | | | |
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| 220/230V HP 15 460/480V HP 30 General USE Contactor AC current A 55 Ambient conditions AC current A 55 Temperature Operating temperature min °C -50 Max altitude min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection m 3000 | | for three-phase AC motor | 000/0001/ | | 4.0 |
| 460/480V HP 30 General USE Contactor HP 30 AC current A 55 Ambient conditions - - Temperature - - Operating temperature - - min °C -50 max °C 70 Storage temperature - - Max altitude m 3000 | | | | | |
| S75/600V HP 30 General USE Contactor AC current A 55 Ambient conditions | | | | | |
| General USE Contactor AC current A 55 Ambient conditions Temperature min °C -50 Temperature min °C 70 Storage temperature min °C -60 Max altitude m 3000 Resistance & Protection Water and the store of | | | | | |
| Contactor AC current A 55 Ambient conditions | | | 575/600V | HP | 30 |
| AC current A 55 Ambient conditions Temperature Operating temperature min °C Storage temperature min °C Storage temperature min °C Max altitude Resistance & Protection | General USE | Contactor | | | |
| Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Feasible Feasible | | Contactor | | ۸ | E E |
| Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection | Ambient conditions | | AC current | A | 55 |
| Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection | | | | | |
| min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection with the second s | remperature | Operating temperature | | | |
| max°C70Storage temperaturemin°C-60max°C80Max altitudem3000Resistance & ProtectionVV | | Operating temperature | min | °C | -50 |
| Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection V V | | | | | |
| min°C-60max°C80Max altitudem3000Resistance & Protection | | Storage temperature | max | 0 | |
| max°C80Max altitudem3000Resistance & Protection | | | min | °C | -60 |
| Max altitude m 3000 Resistance & Protection | | | | | |
| Resistance & Protection | Max altitude | | max | | |
| | | on | | | |
| | Pollution degree | | | | 3 |

Dimensions





Wiring diagrams



Certifications and compliance

| e en integration e ana een | | |
|----------------------------|------------------------|--|
| 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 |
| | | |

BF38T2A23060