



Product Data Sheet

BFPB-37-1-4 Shown (4-Position)

BFPB-XX-X-X

See catalog nomenclature below for specific numbers.

Power Terminal block

For Splicing or Distribution Connections

1605 Amps 1000 Volts AC/DC

Wire Range

- Suitable for Listed Lugs
 - \rightarrow Lugs must fit on 1/2" or 3/8" studs
 - \rightarrow Dbl-holed Lugs must have 1.75" Spacing
 - $\rightarrow~$ See table on page-5 for compatible Lugs.
- Suitable for Flexibar (Flexible busbar)

Electrical Ratings

- 1605 Amps
- Voltage:
 - → 1000V per UL-1059 Class-E & CSA22.2 No.58, Class-C requirements.
 - \rightarrow 600V per UL-1059 Service, Commercial & Industrial Class (A & C) requirements.
 - → 600V per CSA22.2 No.58 Service, Commercial & Industrial Class (A & E) requirements.
- Factory & Field Wiring
- SCCR Ratings see tables below.

Agency Compliance

- UR UL Recognized Terminal Block, Evaluated to UL-1059, File No.XCFR2.E62806
- cUR UL Evaluated to CSA 22.2 No.158, File No.XCFR8.E62806
- RoHS Compliant

Material Information

- Insulator Base:
 - → Glass-Filled Polycarbonate
 - \rightarrow Flammability Rating of Insulator Base UL94V0
 - \rightarrow Insulator Base Temperature Rating: -40°C to 130°C (UL RTI)
- Connector Copper, Tin Plated
- Terminal Studs Steel, Zinc Plated
- Hardware (Nuts, Flat Washer, Bellville Washer) Steel, Zinc Plated

A Regal Brand



www.regalbeloit.com

Termination Specifications

- For use with conductors prepared with Listed connectors such as single and double hole compression/crimp lugs or Listed ring, fork or spade terminals.
- For use with Flexibar (flexible busbar) when prepared appropriately.
- Conductor size, ampacity, temperature rating and type are dictated by the ratings of the Listed Lugs utilized and applicable code requirements.
- End positions (that mount the busbar to the insulator ends) are intended to be used as terminal positions.
- It is NOT recommended to stack Lugs with Flexibar on the same stud position(s).

| Stud Terminals | Termination Type | Torque Lbf·in (N·m) | Lugs/Flexibar per (Stud) Terminal |
|----------------|---------------------------|-------------------------------|--|
| | Listed Lugs on 3/8" Studs | 250 (28.2) | 4 Max |
| | Listed Lugs on 1/2" Studs | 500 (56.5) | 4 Max |
| | Flexibar on 3/8" Studs | 250 (28.2) | 2 Max |
| | Flexibar on 1/2" Studs | 500 (56.5) | 2 Max |

Installation & Accessories

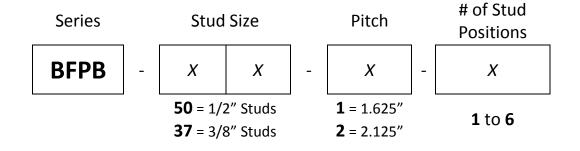
- Mounting (Panel):
 - \rightarrow Recommended 3/8" fastener with flat washer (max diameter 1").
 - \rightarrow Torque Mounting Fastener 50-100 in-lbs (5.6-11.3 N·m).
- Covers:
 - \rightarrow Screw-on covers available upon request.
 - \rightarrow For specific part numbers, see the table on page four.
 - \rightarrow Covers are clear Acrylite[®] that come with a peel-off protective film to prevent scratches.
- Tools needed:
 - \rightarrow Socket Driver 3/4" for 1/2" Hex Terminal Nuts, or 9/16" for 3/8" Hex Terminal Nuts.
 - \rightarrow Phillips Drive #2 for Cover Mounting Screw.
- Safety Guidelines:
 - \rightarrow Assure all washers and nuts are secured on any unused studs.
 - \rightarrow Use appropriate/specified hardware (washers & nuts).
 - \rightarrow Accessory Cover (Optional) is not intended to provide insulation for electrical spacings.
 - \rightarrow When stacking lugs:
 - (1) Wider lugs should be mounted first, with smaller lugs following on top.
 - (2) Assure Tangs are in contact with the busbar or each other, and barrels are not interfering.

Short Circuit Current Ratings (SCCR)

- The suitable wire/flexibar ranges are limited to the table values only for achieving the SCCR ratings in excess of the default rating of 10,000A.
- Other conductor combinations within the "Terminal Specifications" noted are suitable for achieving a SCCR of 10,000A (the default rating of terminal blocks).
- Enclosure size Investigated with a minimum 24x20x8 Enclosure. Use in smaller enclosures is subject to end use evaluation.

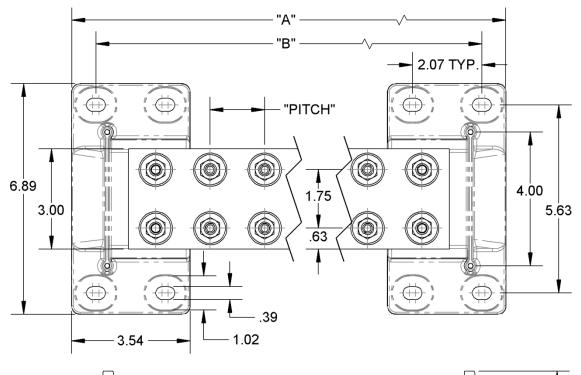
| Suitable Lugged Wire -or- | Max Fuse Protection Req. Amp Rating / Class | | | | SCCR RMS Sym. Amps | |
|------------------------------|--|-----|------|-----|-----------------------|-----------|
| Flexibar | L | J | Т | RK1 | RK5 | 600V. Max |
| 750 – 350 kcmil | 1200 | 600 | 1200 | 600 | 600 | 100,000 |
| 10x100x1 - 4x32x1 | 1200 | 600 | 1200 | 600 | 600 | 100.000 |
| 750 – 350 kcmil | No Over-Current Protection Device Required | | | | | 35,000 |
| 10x100x1 - 4x32x1 | No Over-Current Protection Device Required | | | | 35,000 | |
| Applicable Lugs/Flexibars | No Over-Current Protection Device Required | | | | 10,000 | |

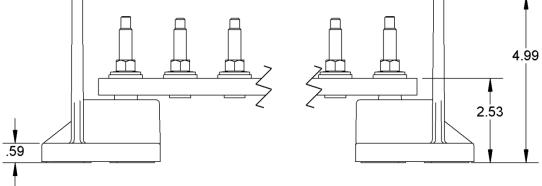
Catalog Nomenclature:



Drawing

| CATALOG | STUD | STUD | DIMENSIONS | | | Cover |
|-------------|-----------|------|------------|-------|-------|-------------|
| NUMBER | POSITIONS | SIZE | PITCH | Α | В | Part No. |
| BFPB-50-2-2 | 2 | 1/2 | 2.125 | 7.14 | 5.69 | CC-BFPB-2-2 |
| BFPB-50-2-3 | 3 | 1/2 | 2.125 | 9.27 | 7.82 | CC-BFPB-2-3 |
| BFPB-50-2-4 | 4 | 1/2 | 2.125 | 11.39 | 9.94 | CC-BFPB-2-4 |
| BFPB-50-2-5 | 5 | 1/2 | 2.125 | 13.52 | 12.07 | CC-BFPB-2-5 |
| BFPB-50-2-6 | 6 | 1/2 | 2.125 | 15.64 | 14.19 | CC-BFPB-2-6 |
| BFPB-37-1-3 | 3 | 3/8 | 1.625 | 8.27 | 6.82 | CC-BFPB-1-3 |
| BFPB-37-1-4 | 4 | 3/8 | 1.625 | 9.89 | 8.44 | CC-BFPB-1-4 |
| BFPB-37-1-5 | 5 | 3/8 | 1.625 | 11.52 | 10.07 | CC-BFPB-1-5 |
| BFPB-37-1-6 | 6 | 3/8 | 1.625 | 13.14 | 11.69 | CC-BFPB-1-6 |





WWW.MARATHONSP.COM

Suitable Lugs Available

- The following table lists a group of (double-hole) lugs that fit this series.
- Any Listed Lug (single-hole or double-hole) that fastens adequately is acceptable.
- You MUST verify your <u>Lug width</u> is less than or equal to the <u>Pitch</u> specified (Either 1.625" or 2.125").

| Wire | | | T&B | Burndy |
|---------|------------------|--------------------------------------|-----------------|-------------|
| Size | ILSCO Lugs | Notes: | | Burndy |
| & Type | _ | | Crosses | Crosses |
| 1/0 AL | 2ACN-1/0 | | 256-30695-593 | YA25A7 |
| 2/0 AL | 2ACL-2/0 | | 54862BE | YA26A3 |
| 3/0 AL | 2ACL-3/0 | | 54864BE | YA27A5 |
| 4/0 AL | 2ACL-4/0 | | 54866BE | YA28A5 |
| 250 AL | 2ACL-250 | | 54868BE | YA29A3 |
| 300 AL | 2ACL-300 | | 54870BE | YA30A3 |
| 350 AL | 2ACL-350 | | 54872BE | YA31A3 |
| 400 AL | 2ACL-400 | | 54874BE | YA32A3 |
| 500 AL | 2ACL-500 | | 54876BE | YA34A3 |
| 600 AL | 2ACL-600 | | 54878BE | YA36A3 |
| 750 AL | 2ACL-750 | | 54880BE | YA39A5 |
| 1/0 AL | 2IACL-1/0 | Narrow Profile AL Lug | - | - |
| 2/0 AL | 2IACL-2/0 | Narrow Profile AL Lug | 60238 | - |
| 3/0 AL | 2IACL-3/0 | Narrow Profile AL Lug | 60244 | - |
| 4/0 AL | 2IACL-4/0 | Narrow Profile AL Lug | 60250 | - |
| 250 AL | 2IACL-250 | Narrow Profile AL Lug | 60256 | - |
| 300 AL | 2IACL-300 | Narrow Profile AL Lug | 60262 | - |
| 350 AL | 2IACL-350 | Narrow Profile AL Lug | 60267 | - |
| 500 AL | 2IACL-500 | Narrow Profile AL Lug | 60273 | - |
| 600 AL | 2IACL-600 | Narrow Profile AL Lug | 60275 | - |
| 750 AL | 2IACL-750 | Narrow Profile AL Lug | 60278 | - |
| 1000 AL | 2IACL-1000 | Narrow Profile AL Lug | 60284 | - |
| 1/0 CU | CLWD-1/0-12-134 | Accepts #1 FLEX | 256-30695-593PH | YAZ252N |
| 2/0 CU | CLWD-2/0-12-134 | Accepts 1/0 FLEX | 54862BEPH | YAZ262N |
| 3/0 CU | CLWD-3/0-12-134 | Accepts 2/0 FLEX | 54864BEPH | YAZ272N |
| 4/0 CU | CLWD-4/0-12-134 | Accepts 3/0 FLEX | 54866BEPH | YAZ282N |
| 250 CU | CLWD-250-12-134 | Accepts 4/0 FLEX | 54868BEPH | YAZ292N |
| 300 CU | CLWD-300-12-134 | Accepts 250 G,H FLEX | 54870BEPH | YAZ302N |
| 350 CU | CLWD-350-12-134 | Accepts 250 I,K,M FLEX 262.2 DLO | 54872BEPH | YAZ312N |
| 400 CU | CLWD-400-12-134 | Accepts 300 G,H,I,K,M FLEX 313.1 DLO | 54874BEPH | YAZ322N |
| 500 CU | CLWD-500-12-134 | Accepts 350 G,H,I,K,M FLEX 373.7 DLO | 54876BEPH | YAZ342NTCFX |
| 600 CU | CLWD-600-12-134 | Accepts 400 G,H,I,K,M FLEX 444.4 DLO | 54878BEPH | YAZ362N |
| 650 CU | CLWD-650-12-134 | Accepts 500 G,H,I,K,M FLEX 535.3 DLO | 54880BEPH | YAZ382NTCFX |
| 750 CU | CLWD-750-12-134 | Accepts 600 G,H,I,M FLEX 646.4 DLO | 54884BEPH | YAZ392N |
| 1000 CU | CLWD-1000-12-134 | Accepts 750 G,H,I FLEX 777.7 DLO | 58826BEPH | YAZ442N |

Suitable Flexibar & Recommendations

- The following table only lists flexibar configurations we have evaluated with this series.
- Any flexibar may be utilized per the manufacture's specifications that apply.

| Flexibar | Hole Pattern | Pitch | A (in) | B (in) |
|----------|-----------------|-------|--------|--------|
| 8x24x1 | А | Both | 0.94 | 0.31 |
| 10x24x1 | Α | Both | 0.94 | 0.39 |
| 4x32x1 | Α | Both | 1.26 | 0.16 |
| 5x32x1 | А | Both | 1.26 | 0.20 |
| 6x32x1 | А | Both | 1.26 | 0.24 |
| 8x32x1 | А | Both | 1.26 | 0.31 |
| 10x32x1 | А | Both | 1.26 | 0.39 |
| 3x40x1 | А | Both | 1.57 | 0.12 |
| 4x40x1 | А | Both | 1.57 | 0.16 |
| 5x40x1 | А | Both | 1.57 | 0.20 |
| 6x40x1 | Α | Both | 1.57 | 0.24 |
| 8x40x1 | А | Both | 1.57 | 0.31 |
| 10x40x1 | А | Both | 1.57 | 0.39 |
| 6x45x1 | А | Both | 1.77 | 0.24 |
| 8x45x1 | Α | Both | 1.77 | 0.31 |
| 3x50x1 | Α | Both | 1.97 | 0.12 |
| 4x50x1 | Α | Both | 1.97 | 0.16 |
| 5x50x1 | Α | Both | 1.97 | 0.20 |
| 6x50x1 | А | Both | 1.97 | 0.24 |
| 8x50x1 | Α | Both | 1.97 | 0.31 |
| 10x50x1 | А | Both | 1.97 | 0.39 |
| 3x63x1 | А | Both | 2.48 | 0.12 |
| 4x63x1 | А | Both | 2.48 | 0.16 |
| 5x63x1 | А | Both | 2.48 | 0.20 |
| 6x63x1 | Α | Both | 2.48 | 0.24 |
| 8x63x1 | А | Both | 2.48 | 0.31 |
| 10x63x1 | А | Both | 2.48 | 0.39 |
| 3x80x1 | В | Both | 3.15 | 0.12 |
| 4x80x1 | В | Both | 3.15 | 0.16 |
| 5x80x1 | В | Both | 3.15 | 0.20 |
| 6x80x1 | В | Both | 3.15 | 0.24 |
| 8x80x1 | В | Both | 3.15 | 0.31 |
| 10x80x1 | В | Both | 3.15 | 0.39 |
| 4x100x1 | В | 2.125 | 3.94 | 0.16 |
| 5x100x1 | В | 2.125 | 3.94 | 0.20 |
| 6x100x1 | В | 2.125 | 3.94 | 0.24 |
| 8x100x1 | В | 2.125 | 3.94 | 0.31 |
| 10x100x1 | В | 2.125 | 3.94 | 0.39 |

