


Fuji Molded Case Circuit Breakers – Wire Range Specifications




Wiring


- When connecting the wires, follow NEC (National Electric Code, USA) or CEC (Canadian Electrical code Part 1, Canada) instructions.
- Use copper wire rated for 75°C (167°F) for connecting. UL or CSA approved wire is recommended.
- Tighten the wire connections adequately, as a very large electromagnetic force will be generated when short circuit current is generated.
- Perform additional tightening of the terminal screws periodically.



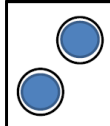
- Adhere to the allowable number of strands of wire indicated in the table on the left.
- Two wires cannot be connected together to a single connecting hole of lug terminal except BW400SAGU-3P400SB.
- Follow the number of strands of wire indicated on the table. (Wire size and number of wire strands not listed on table can not be connected)
- Do not solder the end of the wire.



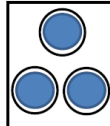
Rated current
15A to 350A



Rated current 400A
3/0 AWG x 2
19 strands each



Rated current
500A to 700A



Rated current 800A
300 MCM x 3
37 strands each

| Allowable Wire Specifications for Lug Terminals | |
|---|------------------------|
| Wire Size AWG or MCM (mm ²) | Number of Wire Strands |
| 14 to 2 (2.1 to 33.6) | 7 |
| 1 to 4/0 (42.4 to 107.2) | 19 |
| 250 to 500 (127 to 250) | 37 |

| Allowable Wire Sizes and Tightening Torque | | | |
|--|-------------------|---|--------------------------|
| Type | Rated Current (A) | Wire Size AWG or MCM (mm ²) | Tightening Torque |
| | | | Lug Terminal* |
| BW125 | 15 | 14 AWG (2.1 mm ²) | 51 lb•in (5.8 N•m) |
| | 20 | 12 AWG (3.3 mm ²) | |
| | 30 | 10 AWG (5.3 mm ²) | |
| | 40 | 8 AWG (8.4 mm ²) | |
| | 50 | 8 AWG (8.4 mm ²) | |
| | 60 | 6 AWG (13.3 mm ²) | |
| | 70 | 4 AWG (21.1 mm ²) | |
| | 75 | 4 AWG (21.1 mm ²) | |
| | 80 | 4 AWG (21.1 mm ²) | |
| | 90 | 3 AWG (26.7 mm ²) | |
| | 100 | 3 AWG (26.7 mm ²) | |
| BW250 | 125 | 1 AWG (42.4 mm ²) | 204 lb•in (23 N•m) |
| | 150 | 1/0 AWG (53.5 mm ²) | |
| | 175 | 2/0 AWG (67.4 mm ²) | |
| | 200 | 3/0 AWG (85.0 mm ²) | |
| | 225 | 4/0 AWG (107.2 mm ²) | |
| | 250 | 250 MCM (127 mm ²) | |
| BW400 | 250 | 250 MCM (127mm ²) | 385 lb•in (43.5 N•m) |
| | 300 | 350 MCM (177mm ²) | |
| | 350 | 500 MCM (253mm ²) | |
| | 400 | 3/0 AWGx2 (85.0 mm ² x2) | 282 lb•in (31.9 N•m) |
| BW630 | 500 | 250 MCMx2 | 275 lb•in (31.07 N•m) |
| | 600 | 350 MCMx2 | |
| BW800 | 700 | 500 MCMx2 | 275 lb•in (31.07 N•m) |
| | 800 | 300 MCMx3 | |

*Lug terminals are supplied as standard.
 Note: Terminals are factory-installed only for BW400, BW630 and BW800 series.
 No replacement terminals available.