Fuji Molded Case Circuit Breakers Overview

Overview

Fuji Molded Case Circuit Breakers are more compact (especially 100A, 125A, 250A frames) than any breakers on the market, so they take up less space in control panels.

This product group maintains conformity to all Worldwide standards.

Agency Approvals

- UL listed, MCCB, File: E90584
- UL listed, Accessories, File E93289
- CE marked
- CCC marked
- · TUV certified

Standards

- UL 489
- CSA C22.2 No.5
- IEC 60947-2
- EN 60947-2
- GB 14048.2
- JIS C8201-2-1, 2 (ANN.1, 2)







| | Fuji Electric Molded Case Circuit Breakers Technical Specifications | | | | | | | | | | |
|-----------|---|-----------|-----|-----|---------------|-----|----------------------------------|-----------------------------------|----------|--|--|
| | Ampere Rating at | | Vo | lts | | (| UL 489 Interru rms Symmetrica | upting Ratings al Amperes) (kA | 1) | | |
| | 40°C | No. Poles | AC | DC | Type of Trip* | Vo | olts AC (50/60 H | lz) | Volts DC | | |
| | | | AC | ВС | | 240 | 480 | 600 | 250** | | |
| BW125JAGU | 15-125 | 3 | 600 | 250 | N.I.T.U | 50 | 30 | 10 | 10 | | |
| BW250JAGU | 125-250 | 3 | 600 | 250 | N.I.T.U | 50 | 30 | 10 | 10 | | |
| BW400SAGU | 250-400 | 3 | 480 | 250 | N.I.T.U | 50 | 35 | _ | 10 | | |
| BW630RAGU | 500-600 | 3 | 480 | 250 | N.I.T.U | 100 | 50 | _ | 10 | | |
| BW800RAGU | 700-800 | 3 | 480 | 250 | N.I.T.U | 100 | 50 | _ | 10 | | |

Operating Range: -10 to 50°C [14 to 122°F]

^{*}Note: N.I.T.U denotes non-interchangeable trip unit.

^{**}Note: For DC or 1-phase AC applications, use the two outside poles of the 3-pole circuit breaker

Fuji Molded Case Circuit Breakers 400A Frame Figure Fuji Electric



Fuji BW400A series MCCBs are 400 amp frame, 3-pole, non-adjustable magnetic trip, molded case circuit breakers (MCCB). The BW400 series is suitable for reverse feed applications. Included

with each MCCB are Line and Load-side lug terminals and mounting hardware. Accessories are not pre-installed and are sold separately.

BW400SAGU-3P250SB

| BW400-Frame Series Three-Pole Molded Case Circuit Breakers | | | | | | | | | | |
|--|-------|-----------|------------------|------------------------|-----------------------|---|-----------------------|----------------------|-----------------------|--|
| | | | | | Rated Inte | rrupting Cap | acity (kA) | | | |
| Part Number | Price | Frequency | Rated Current | | | IEC60947-2, JIS C 8201-2-1 lcu/lcs | | GB14048.2 Icu/Ics | | |
| | | | Ampere Rating | Voltage | Interrupt Capacity | Voltage | Interrupt Capacity | Voltage | Interrupt Capacity | |
| BW400SAGU-3P250SB | | | 250 | | | 690V AC 10/5 kA 500V AC 20/10 kA 440V AC 36/18 kA 400V AC 36/18 kA 380V AC 36/18 kA | | | | |
| BW400SAGU-3P300SB | | 50/60 Hz | 300 | 480V/Δ AC 480V/Y AC | 35 kA 35 kA | | 36/18 kA | 400V AC | 36/18 kA | |
| BW400SAGU-3P350SB | | 30/00 HZ | 350 | 240V AC 250V DC | 50 kA 10 kA | | 230V AC | 85/43 kA | | |
| BW400SAGU-3P400SB | | | 400 | | | 240V AC 250V DC | 85/43 kA 20/10 kA | | | |

Note: SCCR = UL489 interrupting capacity

| | | BW400-Frame Accessory Selection Guide |
|-----------------------|-------|--|
| Part Number | Price | Description |
| BW9W1SHA | | Field installable auxiliary contact switch, use with BW400, BW630 and BW800 series MCCBs. SPDT. 20AWG lead wires, 19.69" long, left side mount only |
| BW9FHA-R | | Field installable DC shunt trip, use with BW400, BW630 and BW800 series MCCBs; 24 VDC/AC, 20 AWG lead wires 19.69" long, left and right side mount |
| BW9FHA-A | | Field installable AC shunt trip, use with BW400, BW630 and BW800 series MCCBs; 100-120 VAC, 20 AWG lead wires 19.69" long, left and right side mount |
| BW9RHA-R | | Field installable DC undervoltage release, for BW400, BW630 and BW800 series MCCBs; 24-48 VDC, 20AWG lead wires, 19.69" long, left side mount only |
| BW9RHA-1 | | Field installable AC undervoltage release, for BW400, BW630 and BW800 series MCCBs; 120-130 VAC, 20AWG lead wires, 19.69" long, left side mount only |
| BW9BTHA-L3W* | | Terminal cover for BW400-frame MCCBs, line and load side, package of 2 |
| BW9V0HA | | NEMA 12 rotary handle for BW400-Frame. Position indicating; lock-off feature. Shaft length: 0.39" |
| BZ-VS2 | | NEMA 12 rotary handle shaft for BW9V0HA and BW9V0JA, BW400, BW630 and BW800 Frames. Steel shaft length: 3.48" (88 mm) |
| BZ-VS2-24 | | NEMA 12 rotary handle shaft for BW9V0HA and BW9V0JA, BW400, BW630 and BW800 Frames. Steel shaft length: 24" (610 mm) |
| <u>BW9F0HA-15A</u> ** | | NEMA 12 flexible shaft handle for BW400-Frame. Flange mounted. Lockable. Flex cable shaft length: 4.92' (1.5m) |
| BW9F0HA-20A** | | NEMA 12 flexible shaft handle for BW400-Frame. Flange mounted. Lockable. Flex cable shaft length: 6.56' (2m) |
| BW9QNHA | | Lockout attachment, use to lock out BW400, BW630 and BW800 series MCCBs. Lock not included. |

^{*}Terminal covers are not supplied as standard.

^{**}Terminal covers for line side and load side included with Flange Disconnects. 2/pk Note: Terminals are factory-installed only. No replacement terminals available.











BW9V0HA

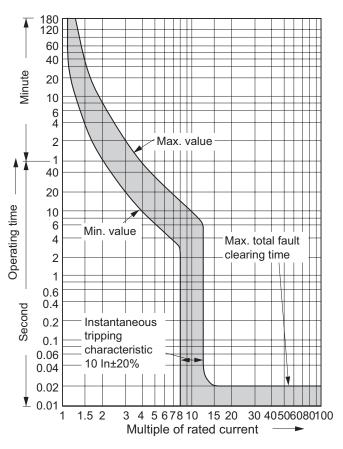
BW9F0HA-15A

BW9FHA-R

BW9QNHA

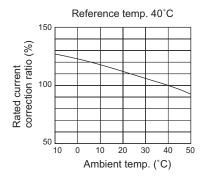
Fuji Molded Case Circuit Breakers 400A Frame Characteristic Curves

BW400 Current Range 250 - 400A



Fuji Electric

BW400 (Current Range: 250 - 400A)



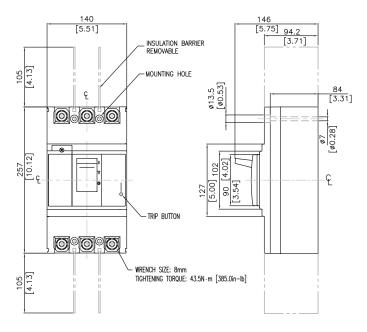
Note: Instantaneous tripping = 10 x (rated current) \pm 20% In = rated current

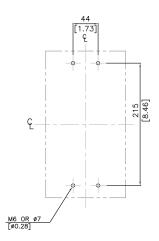
Fuji Molded Case Circuit Breakers Dimensions

Dimensions

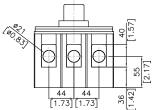
mm [inches]

250A to 350A BW400 Frame



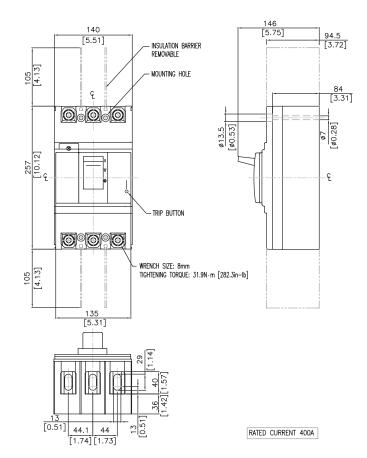


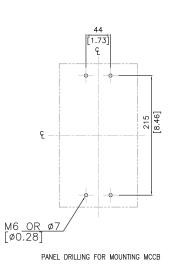
PANEL DRILLING FOR MOUNTING MCCB



RATED CURRENT 250, 300, 350A

400A BW400 Frame





Fuji Molded Case Circuit Breakers Products And Accessory Compatibility

| | Match the Accessories with Fuji Mol | ded Case | Circuit B | reakers | | |
|-------------|---|-----------|-----------|-----------|-----------|-----------|
| Part Number | Description | BW125JAGU | BW250JAGU | BW400SAGU | BW630RAGU | BW800RAGU |
| BW9W1SG0 | Auxiliary Switch (Mounting Left and right side) | Х | Х | | | |
| BW9W1SHA | Auxiliary Switch (Mounting Left side ONLY) | | | Х | X | Х |
| BW9FRG0 | Shunt Trip 24 VAC/VDC (Mounting both Left and Right sides) | Х | Х | | | |
| BW9FHA-R | Shunt Trip 24-48 VAC/VDC (Mounting Left side ONLY) | | | Χ | Х | Χ |
| BW9FAG0 | Shunt Trip 100-120 VAC, 100-110 VDC (Mounting both Left and Right sides) | Х | Х | | | |
| BW9FHA-A | Shunt Trip 100-280 VAC, 100-220 VDC (Mounting Left side ONLY) | | | Х | Х | Χ |
| BW9RGAR | UnderVoltage Release 24VDC (Left side ONLY) | Х | Х | | | |
| BW9RHA-R | UnderVoltage Release 24 VAC/VDC (Left side ONLY) | | | Х | Х | Χ |
| BW9RGAT | UnderVoltage Release 110-130 VAC (Left side ONLY) | Х | Х | | | |
| BW9RHA-1 | UnderVoltage Release 120-130 VAC, 125VDC (Left side ONLY) | | | Х | Х | Χ |
| BW9SL0CA-3 | Replacement Lugs Kit for 125 Amp frame | Х | | | | |
| BW9SL0GA-3 | Replacement Lugs Kit for 250 Amp frame up to 175A | | Х | | | |
| BW9SL1GA-3 | Replacement Lugs Kit for 250 Amp frame 200A to 250A | | X | | | |
| BW9V0CA | Rotary Handle | Х | | | | |
| BW9V0GA | Rotary Handle | | Х | | | |
| BW9VSG0 | Optional Shaft for BW9V0CA and BW9V0GA, 6.063" | Х | Х | | | |
| BW9VSG0-24 | Optional Shaft for BW9V0CA and BW9V0GA, 24" | Х | Х | | | |
| BW9V0HA | Rotary Handle, | | | Х | | |
| BW9V0JA | Rotary Handle, | | | | Х | Χ |
| BZ-VS2 | Optional Shaft for BW9V0HA and BW9V0JA, 3.48" | | | Х | X | Χ |
| BZ-VS2-24 | Optional Shaft for BW9V0HA and BW9V0JA, H = 24" | | | Х | X | Χ |
| BW9F0CA-15A | Flange Handle (flex shaft), NEMA 12, 59" (1.5m) cable, 125 Amp frame | Х | | | | |
| BW9F0CA-20A | Flange Handle (flex shaft), NEMA 12, 78.7" (2.0m) cable, 125 Amp frame | Х | | | | |
| BW9F0GA-15A | Flange Handle (flex shaft), NEMA 12, 59" (1.5m) cable, 250 Amp frame | | X | | | |
| BW9F0GA-20A | Flange Handle (flex shaft), NEMA 12, 78.7" (2.0m) cable, 250 Amp frame | | Х | | | |
| BW9F0HA-15A | Flange Handle (flex shaft), NEMA 12, 59" (1.5m) cable, 400 Amp frame | | | Х | | |
| BW9F0HA-20A | Flange Handle (flex shaft), NEMA 12, 78.7" (2.0m) cable, 400 Amp frame | | | Х | | |
| BW9F0JA-15A | Nema 12 flexible shaft handle for 630A or 800A frame. 59.06" (1.5m) cable | | | | X | Χ |
| BW9F0JA-20A | Nema 12 flexible shaft handle for 630A or 800A frame. 78.74" (2m) cable | | | | X | Х |
| BW9BTHA-L3W | Terminal Cover for the 400A frame | | | Х | | |
| BW9BTJA-L3W | Terminal Cover for the 630A AND 800A frame | | | | Х | Χ |
| BW9Q1CA | Lockout Attachment 125A and 250A frames | Х | Х | | | |
| BW9QNHA | Lockout Attachment 400A, 630A and 800A frames | | | Х | Х | Χ |

Internal Accessory Combinations for BW Series

| Available configurations | S-pole Left → Right Handle | Undervoltage trip Shunt trip | O Auxiliary switch |
|---------------------------------|------------------------------|------------------------------|-------------------------|
| MCCB | | BW125 BW250 | BW400 BW630 BW800 |
| Pole | | 3 | 3 |
| Auxiliary switch SPDT | | 0 | 0 |
| Shunt trip | | Ho | |
| Undervoltage trip | | | |
| Auxiliary Switch + Shunt Trip | | | 。 □ ⊢ |
| Undervoltage + Auxiliary Switch | | | · • |

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.

| Allowable Wire Specifications for Lug Terminals | | | | | | | |
|---|------------------------|--|--|--|--|--|--|
| Wire Size AWG or MCM (mm²) | 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 | | | | | | |



- 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 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 Sizes and Tightening Torque | | | | | | | | | |
|--|----------------------|-------------------------------------|------------------------------------|--|--|--|--|--|--|
| Туре | Rated Current (A) | Wire Size (AWG or MCM [mm²] | Tightening Torque Lug Terminal* | | | | | | |
| | 15 | 14 AWG [2.1 mm ²] | | | | | | | |
| | 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] | 51 lb•in | | | | | | |
| BW125 | 70 | 4 AWG [21.1 mm ²] | [5.8 N•m] | | | | | | |
| | 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] | | | | | | | |
| | 125 | 1 AWG [42.4 mm ²] | | | | | | | |
| | 125 | 1 AWG [42.4 mm ²] | | | | | | | |
| | 150 | 1/0 AWG [53.5 mm ²] | | | | | | | |
| D14/050 | 175 | 2/0 AWG [67.4 mm ²] | 204 lb•in | | | | | | |
| BW250 | 200 | 3/0 AWG [85.0 mm ²] | [23 N•m] | | | | | | |
| | 225 | 4/0 AWG [107.2 mm ²] | | | | | | | |
| | 250 | 250 MCM [127 mm ²] | | | | | | | |
| | 250 | 250 MCM [127mm ²] | | | | | | | |
| | 300 | 350 MCM [177mm ²] | 385 lb•in [43.5 N•m] | | | | | | |
| BW400 | 350 | 500 MCM [253mm ²] | [40.0 14 111] | | | | | | |
| | 400 | 3/0 AWGx2 [85.0 mm ² x2] | 282 lb•in [31.9 N•m] | | | | | | |
| BW630 | 500 | 250 MCMx2 | 275 lb•in | | | | | | |
| DVVOSU | 600 | 350 MCMx2 | [31.07 N•m] | | | | | | |
| BW800 | 700 | 500 MCMx2 | 275 lb•in | | | | | | |
| DVVOUU | 800 | 300 MCMx3 | [31.07 N·m] | | | | | | |

^{*}Lug terminals are supplied as standard.

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

Fuji Molded Case Circuit Breakers Field-mountable Accessories



| | Rotary Operating Handles for Fuji MCCBs – Selection Guide | | | | | | | | | | |
|----------------|---|---------------|-----------------------|---------------------------------------|--|--|-----------------------------|-------------------|------------------|--|--|
| Dunalian Mana | | V-type Handle | | optional shaft 3.504 (89)) | | ptional shaft ! (609.6)) | Mounting | V-type Handle | | | |
| Туре | Breaker V-type Type Handle | Price H: | H: inch(mm) | Max. Mounting Depth H: inch(mm) | Range in which the hinge with H can be installed | with H can be Depth hinge with H can b | | Mounting Screw | Mass Ib. (kg) | | |
| BW400 | BW9V0HA | | | | | | | | | | |
| BW630 BW800 | BW9V0JA | | 7.48±0.078 (190±2) | 9.843±0.078 (250±2) | 7.95 to 9.843 (202to 250) | 30.35±0.078 (771±2) | 7.95 - 30.35 (202 - 771) | M4 x 3.35 (85) | 1.48 (0.67) | | |

Notes:

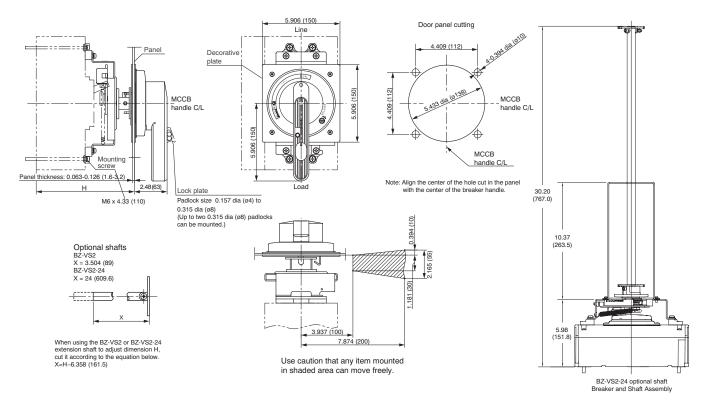
- · Handle is an operating mechanism only; not for sealing enclosure door.
- · Not available for side mounting

Dimensions

mm [inches]

400A, 630A, 800A Frame V type handle

• BW9V0HA, BW9V0JA (BZ-VS2, BZ-VS2-24: optional shafts)



Fuji Molded Case Circuit Breakers Field-mountable Accessories

Defeatable Flexible Handle Operating Mechanisms





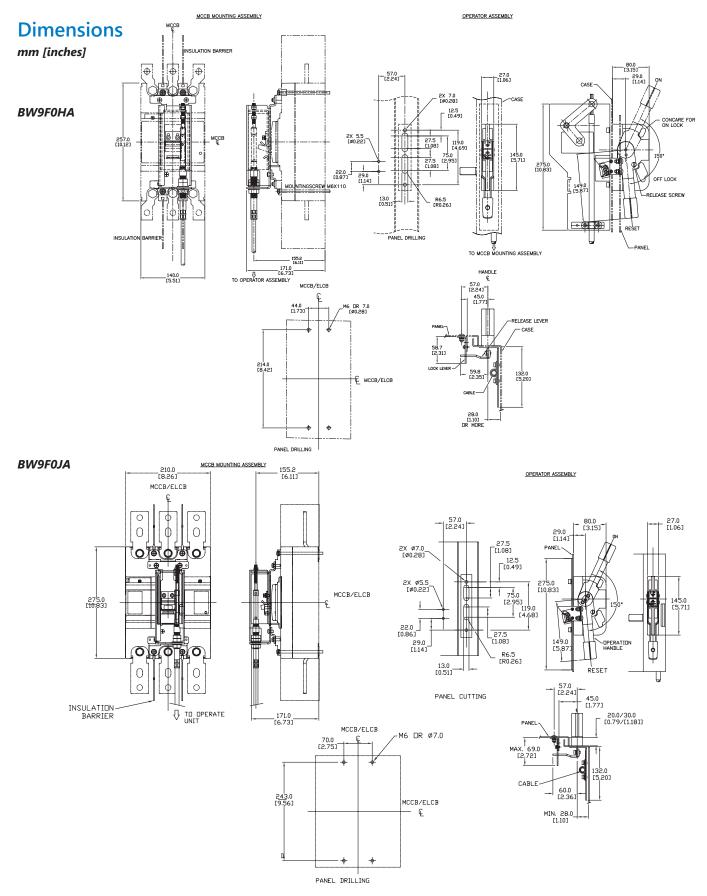
BW9F0JA-20A shown

| | Flex Shaft Handles for Fuji MCCBs – Selection Guide | | | | | | | | |
|--------------|---|-------|--|--|--|--|--|--|--|
| Breaker Type | Handle Type | Price | Description | | | | | | |
| BW125 | BW9F0CA-15A | | Nema 12 flexible shaft handle for 125A frame. 59.06" (1.5m)cable | | | | | | |
| BVV125 | BW9F0CA-20A | | Nema 12 flexible shaft handle for 125A frame. 78.74" (2m) cable | | | | | | |
| BW250 | BW9F0GA-15A | | Nema 12 flexible shaft handle for 250A frame. 59.06" (1.5m)cable | | | | | | |
| BVV250 | BW9F0GA-20A | | Nema 12 flexible shaft handle for 250A frame. 78.74" (2m) cable | | | | | | |
| BW400* | BW9F0HA-15A | | Nema 12 flexible shaft handle for 400A frame. 59.06" (1.5m)cable | | | | | | |
| BVV400* | BW9F0HA-20A | | Nema 12 flexible shaft handle for 400A frame. 78.74" (2m) cable | | | | | | |
| BW630*& | BW9F0JA-15A | | Nema 12 flexible shaft handle for 630A or 800A frame. 59.06" (1.5m)cable | | | | | | |
| BW800* | BW9F0JA-20A | | Nema 12 flexible shaft handle for 630A or 800A frame. 78.74" (2m) cable | | | | | | |

^{*}Terminal covers for line side and load side included with Flange Disconnects. 2/pk

| Flex Handle Specifications | | | | | | | | | |
|-------------------------------|------------------------------------|--|----------------------------|----------------|--|--|--|--|--|
| Operating instructions | Operation Panel door cannot be | Operating handle facing up, Breaker is in ON position. Operating handle facing down, Breaker is in OFF position or is reset. Panel door cannot be opened when in ON, OFF or Trip position. In order to open the door, the handle must be turned toward reset position. Release screw is standard. If you want to open a panel door in ON position, please turn the release screw using flat head screwdriver. | | | | | | | |
| Frame Size | 125A frame | 250A frame | 400A frame | 630A/800 frame | | | | | |
| Mechanical Endurance (cycles) | 10,000 | 8,000 | 6,000 | 6,000 | | | | | |
| Ambient Temperature | | 14 to 140F (- | 10 to 40°C) | | | | | | |
| Relative Humidity | | less than | 95% RH | | | | | | |
| Protection | | NEMA Type12 IF | P54 (IEC60529) | | | | | | |
| Conforming Standards | NFPA 79(20 | 007), ANSI(Lockout), OSHA(| 1910.147, Lockout/tagout), | UL489(cUL) | | | | | |
| Environment | No excess | sive dust, smoke, corrosive g | ases, flammable gases, ste | am or salt. | | | | | |

Fuji Molded Case Circuit Breakers Field-mountable Accessories



Fuji Molded Case Circuit Breakers Accessories FUJI Electric



BW9W1SHA shown

Auxiliary Contacts

The auxiliary contacts are accessory contacts for the indication of circuit breaker open-closed or tripped.

| | Auxiliary Contacts for Fuji MCCBs – Selection Guide | | | | | | | | |
|-------------------------|---|-------|--|--|--|--|--|--|--|
| Breaker Type | Part Number | Price | Description | | | | | | |
| BW125 BW250 | BW9W1SG0 | | Auxiliary switch for for 125A and 250A frame. Mounting left and right side | | | | | | |
| BW400 BW630 BW800 | BW9W1SHA | | Auxiliary switch for for 400A , 630A and 800A frame. Mounting left side ONLY | | | | | | |

| Ratings of Auxiliary Switches | | | | | | | | | | | |
|-------------------------------|------------------------|-------------|-----------|------------|-------------|-----------|-----------|-------------------------|--|--|--|
| | Standard Type | | | | | | | | | | |
| | Rated | | | Make/Break | Current (A) | | | | | | |
| Breaker Type | Thermal Current (A) | AC | | | DC | | | Minimum Load Current | | | |
| | | Voltage (V) | Res. Load | Ind. Load | Voltage (V) | Res. Load | Ind. Load | Guirent | | | |
| | | 24 | 5 | 5 | 24 | 4 | 3 | | | | |
| BW125, BW250, | _ | 48 | 5 | 5 | 48 | 2.5 | 1 | 5V DC 160 mA | | | |
| BW400 BW630, BW800 | 5 | 125 | 5 | 3 | 125 | 0.4 | 0.4 | 30V DC 30 mA | | | |
| | | 250 | 3 | 2 | 250 | 0.2 | 0.2 | | | | |

Operation of auxiliary switches

| Accessory | Handle position | | | | |
|-----------------|-----------------|---------|---------|--|--|
| | ON | OFF | Trip | | |
| Auxiiary switch | 11/AXcL 14/AXaL | 11/AXcL | 14/AXaL | | |
| SPDT | . | | | | |
| (1 |) 12/AXbL | | 12/AXbL | | |



BW9FRG0 shown

Shunt Trips

Shunt Trip is for remote tripping (opening) of crircuit breaker.

| | 1 3 1 3 | | | | | |
|--|---------|--|--|--|--|--|
| Shunt Trips for Fuji MCCBs – Selection Guide | | | | | | |
| Part Number | Price | Description | | | | |
| BW9FRG0 | | Field installable 24 VAC/VDC shunt trip for BW125 and BW250 series MCCB. Left and right side mounting. Lead wires 20AWG, 19.69" long. | | | | |
| BW9FHA-R | | Field installable 24/48 VAC/VDC shunt trip for BW400, BW630 and BW800 series MCCB. Left side mounting only. Lead wires 20AWG, 19.69" long. | | | | |
| BW9FAG0 | | Field installable 100/120 VAC, 100-110 VDC shunt trip for BW125 and BW250 series MCCB. Left and right side mounting. Lead wires 20AWG, 19.69" long. | | | | |
| BW9FHA-A | | Field installable 100/240 VAC, 100-220 VDC shunt trip for BW400, BW630 and BW800 series MCCB.Left side mounting only. Lead wires 20AWG, 19.69" long. | | | | |

| | Ratings of Shunt Trips | | | | | | | |
|---------------|------------------------|----|-------------------------------|---|------------------------------------|-----------------------|--|--|
| Procker Tune | AC | | DC | | Time Deline of Oall | One and the Time (me) | | |
| Breaker Type | Voltage (V) | VA | Voltage (V) | W | Time Rating of Coil Operating Time | Operating Time (ms) | | |
| DIMAGE DIMAGO | 24 | 50 | 24 | 50 | Continuous | 13-21 | | |
| BW125, BW250 | 100-120 | 50 | 50 100-110 50 (with 1 N.O. co | (with 1 N.O. contact to prevent coil burnout) | 13-21 | | | |
| BW400, BW630, | 24-48 | 2 | 24-48 | 2 | Continuous | 0.20 | | |
| BW800 | 100-240 | 3 | 100-220 | 3 | Continuous | 8-20 | | |

Note: Allowable operating voltage AC voltage: 85% to 110% of coil rated voltage DC voltage: 75% to 125% of coil rated voltage

Fuji Molded Case Circuit Breakers Accessories



Undervoltage Releases

Undervoltage Release will trip the circuit breaker when the connected voltage drops to less than 70% of undervoltage release voltage rating. It will allow the circuit breaker to close (ON) when voltage is approximately 85% of rated voltage.

| Undervoltage Releases for Fuji MCCBs – Selection Guide | | | | | | |
|--|----------|--|--|--|--|--|
| Breaker Type Part Number Price Description | | | | | | |
| BW125, BW250 | BW9RGAR | | Undervoltage Release 24V DC (Left side ONLY) | | | |
| BW125, BW250 | BW9RGAT | | Undervoltage Release 110 to 130 VAC VAC/VDC (Left side ONLY) | | | |
| BW400, BW630, BW800 | BW9RHA-R | | Undervoltage Release 24 VAC/VDC (Left side ONLY) | | | |
| BW400, BW630, BW800 | BW9RHA-1 | | Undervoltage Release 120 to 130 VAC 125 VDC (Left side ONLY) | | | |



BW9RGAR shown

| Ratings of Undervoltage Trip | | | | | | |
|--|-------------|----|-------------|---|--|--|
| Dracker Time | A | С | DC | | | |
| Breaker Type | Voltage (V) | VA | Voltage (V) | W | | |
| BW125* ¹ BW250* ¹ | - | _ | 24 | 5 | | |
| | 110 - 130 | 5 | _ | - | | |
| BW400*2 BW630*2 BW800*2 | 24 | 2 | 24 | 2 | | |
| | 120 - 130 | 3 | 125 | 3 | | |

Note: Allowable operating voltage: AC voltage: 85% to 110% of coil rated voltage DC voltage: 75% to 125% of coil rated voltage.

Turning ON with the undervoltage trip coil not energized causes normal tripping.



BW9SL0GA-3 shown

Replacement Lugs

| Rep | Replacement Lug Kits for Fuji MCCBs – Selection Guide | | | | | |
|-------------|---|---|--|--|--|--|
| Part Number | mber Price Description | | | | | |
| BW9SL0CA-3 | | Replacement lug kit for BW125 series MCCB. 75°C. Cu only Package of 3 | | | | |
| BW9SL0GA-3 | | Replacement lug kit for BW250 series up to 175A MCCB. 75°C. Cu only Package of 3 | | | | |
| BW9SL1GA-3 | | Replacement lug kit for BW250 MCCB series 200A to 250A. 75°C. Cu only Package of 3 | | | | |

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

^{*1} Reset-allowed type: When the breaker handle is in the OFF or RESET state, tripping does not occur, even if the undervoltage trip coil is not energized.

^{*2} Reset-prohibited type: When the undervoltage trip coil is not energized, reset operation cannot reset the tripped breaker to the OFF state.

Fuji Molded Case Circuit Breakers Accessories



Terminal Covers

Terminal covers act as guards to shield the operator from touching live terminations. They fit either the line or load side.

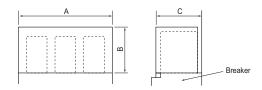


BW9BTHA-L3W shown

| Terminal Covers for Fuji MCCBs – Selection Guide | | | | | | | |
|--|-------------|--------|---|----------------------|-------------|------------|--|
| Prooker Tune | Dout Number | Price | Description | Dimensions inch (mm) | | | |
| Breaker Type | Part Number | Pilice | | Α | В | С | |
| BW400 | BW9BTHA-L3W | | Gray-white Long type terminal cover for Fuji MCCBs. For line side and load side. 2/pk | 6.772 (172) | 4.331 (110) | 3.858 (98) | |
| BW630, BW800 | BW9BTJA-L3W | | Gray-white Long type terminal cover for Fuji MCCBs. For line side and load side. 2/pk | 8.268 (210) | 6.102 (155) | 3.858 (98) | |

Note: Gray-white short type terminal covers are provided with breakers as standard for 125 and 250 Amp frames.

Dimensions of Terminal Covers: inch (mm)



Lockout Attachment

| Lockout Attachments for Fuji MCCBs – Selection Guide | | | | | | | |
|--|----------------|--|---|--|--|--|--|
| Breaker Type Part Number Price Description | | | | | | | |
| BW125 BW250 | BW9Q1CA | | Use to lock out BW125 and BW 250 series MCCBs. Lock not included | | | | |
| BW400, BW630, BW800 | <u>BW9QNHA</u> | | Use to lock out BW400, BW600 and BW800 MCCBs. Lock not included. | | | | |



BW9Q1CA shown