## Fuji Molded Case Circuit Breakers Field-mountable Accessories



## Froji Electric

## Defeatable Rotary Handle Operating Mechanisms

BW9VOCA shown

| Breaker Type | Rotary Operating Handles for Fuf MCCBs - Selection Guide |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | V-type Handle | Price | V-type Handle | With the optional shaft ( $x=6.102$ (155)) |  | With the optional shaft ( $x=24.567$ (624)) |  | Mounting Screw | V-type Handle Mass lb. (kg) |
|  |  |  | H: inch(mm) | Max. Mounting Depth <br> H: inch(mm) | Range in which the hinge with H can be installed | Max. Mounting Depth H: inch(mm) | Range in which the hinge with H can be installed |  |  |
| BW125 | BW9V0CA |  | $4.134 \pm 0.078$ | $9.843 \pm 0.078$ | 5.512 to 9.843 | $28.307 \pm 0.078$ | 28.307-5.591 | M4 $\times 3.35(85)$ | ) |
| BW250 | BW9V0GA |  | (105 $\pm 2$ ) | (250 $\pm 2$ ) | (140 to 250) | (719 $\pm 2$ ) | (124-719) | M4 $\times 3.35$ (05) | ) |

Notes: • Handle is an operating mechanism only; not for sealing enclosure door.

- Not available for side mounting
- For BW250 Series only: When mounting a terminal cover, cut away part of it because it hides the mounting screws for the breaker.


Remove the shaded parts in the figure
125A, 250A Frame V type handle

- BW9V0CA, BW9V0GA (BW9VSG0, BW9VSG0-24: optional shafts)

Dimensions
mm [inches]



Use caution that any item mounted in shaded area can move freely.


## Fuji Molded Case Circuit Breakers Field-mountable Accessories

## F Fuji Electric

| Rotary Operating Handles for Fuji MCCBs - Selection Guide |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Breaker Type | V-type Handle | Price | V-type Handle | With the optional shaft$(x=3.504 \quad(89))$ |  | With the optional shaft$(x=24(609.6))$ |  | Mounting Screw | V-type Handle Mass lb. (kg) |
|  |  |  | H: inch(mm) | Max. Mounting Depth H: inch(mm) | Range in which the hinge with H can be installed | Max. Mounting Depth H: inch(mm) | Range in which the hinge with $H$ can be installed |  |  |
| BW400 | BW9VOHA |  |  |  |  |  |  |  |  |
| BW630 BW800 | BW9VOJA |  | $\begin{gathered} 7.48 \pm 0.078 \\ (190 \pm 2) \end{gathered}$ | $\begin{gathered} 9.843 \pm 0.078 \\ (250 \pm 2) \end{gathered}$ | $\begin{aligned} & 7.95 \text { to } 9.843 \\ & (202 \text { to } 250) \end{aligned}$ | $\begin{gathered} 30.35 \pm 0.078 \\ (771 \pm 2) \end{gathered}$ | $\begin{array}{r} 7.95-30.35 \\ (202-771) \end{array}$ | 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 |
|  | BW9F0CA-20A |  | Nema 12 flexible shaft handle for 125A frame. 78.74" 2 m ) cable |
| BW250 | BW9F0GA-15A |  | Nema 12 flexible shaft handle for 250A frame. 59.06" (1.5m)cable |
|  | BW9F0GA-20A |  | Nema 12 flexible shaft handle for 250A frame. 78.74 " 2 m ) cable |
| BW400* | BW9FOHA-15A |  | Nema 12 flexible shaft handle for 400A frame. 59.06" (1.5m)cable |
|  | BW9FOHA-20A |  | Nema 12 flexible shaft handle for 400A frame. 78.74 " (2m) cable |
| BW630*\& BW800* | BW9F0JA-15A |  | Nema 12 flexible shaft handle for 630A or 800A frame. 59.06" (1.5m)cable |
|  | BW9F0JA-20A |  | Nema 12 flexible shaft handle for 630A or 800A frame. 78.74 " 2 m ) cable |

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

| Flex Handle Specifications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Operating instructions | - Operating handle facing up, Breaker is in ON position. <br> - Operating handle facing down, Breaker is in OFF position or is reset. <br> - 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. <br> - 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 $140 \mathrm{~F}\left(-10\right.$ to $40^{\circ} \mathrm{C}$ ) |  |  |  |
| Relative Humidity | less than 95\% RH |  |  |  |
| Protection | NEMA Type12 IP54 (IEC60529) |  |  |  |
| Conforming Standards | NFPA 79(2007), ANSI(Lockout), OSHA(1910.147, Lockout/tagout), UL489(cUL) |  |  |  |
| Environment | No excessive dust, smoke, corrosive gases, flammable gases, steam or salt. |  |  |  |

## Fuji Molded Case Circuit Breakers Field-mountable Accessories

## Dimensions

 mm [inches]BW9F0CA


BW9F0GA


## Fuji Molded Case Circuit Breakers Field-mountable Accessories



BW9FOJA


## Fuji Molded Case Circuit Breakers Accessories <br> Auxiliary Contacts <br> Fer Fuji Electric



BW9W1SHA shown

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

| Auxiliary Contacts for Fuj Mccis - Selection Guide |  |  |  |
| :---: | :---: | :---: | :---: |
| Breaker Type | Part Number | Price | Description |
| $\begin{array}{\|l\|l} \text { BW125 } \\ \text { BW250 } \end{array}$ | BW9W1SG0 |  | Auxiliary switch for for 125A and 250A frame. Mounting left and right side |
| $\begin{aligned} & B W 400 \\ & B W 630 \\ & B W 800 \end{aligned}$ | BW9W1SHA |  | Auxiliary switch for for 400A, 630A and 800A frame. Mounting left side ONLY |


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

Operation of auxiliary switches


## Shunt Trips

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

| Shunt Trips for Fuf MCCBS - Selection Gulide |  |  |
| :--- | :---: | ---: |
| Part Number | Price | Description |


| RatingS of Shunt Trips |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Breaker Type | AC |  |  | DC |  | Time Rating of Coil |  |  |

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 Fujf 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 VACNDC (Left side ONLY) |
| BW400, BW630, BW800 | BW9RHA-R |  | Undervoltage Release 24 VACNDC (Left side ONLY) |
| BW400, BW630, BW800 | BW9RHA-1 |  | Undervoltage Release 120 to 130 VAC 125 VDC (Left side ONLY) |


| Ratings of Undervoltage Trip |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Breaker Type | AC |  | DC |  |
|  | Voltage (V) | VA | Voltage (V) | W |
|  | - | - | 24 | 5 |
| BW400*2 <br> BW630*2 <br> BW800*2 | $240-130$ | 5 | - | - |
|  | $120-130$ | 2 | 24 | 2 |



BW9RGAR shown

Note: Allowable operating voltage: AC voltage: $85 \%$ to $110 \%$ of coil rated voltage DC voltage: 75\% to 125\% of coil rated voltage.
*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.
Turning ON with the undervoltage trip coil not energized causes normal tripping.
*2 Reset-prohibited type: When the undervoltage trip coil is not energized, reset operation cannot reset the tripped breaker to the OFF state.


Replacement Lugs

| Replacement Lug Kits for Fuf MCGBS - Seloction Guide |  |  |
| :--- | :---: | :---: |
| Part Number | Price | Description |
| BW9SLOCA-3 |  | Replacement lug kit for BW125 series MCCB. $75^{\circ} \mathrm{C}$. Cu only |
| Package of 3 |  |  |

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

## Fuji Molded Case Circuit Breakers Accessories <br> Fuji Electric

## 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

| Breaker Type | Part Number | Price | Description | Dimensions inch (mm) |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | BW400 |  |  | Gray-white Long type terminal cover for Fuji <br> 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 <br> 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
\(\left.$$
\begin{array}{|l|c|c|c|}\hline \text { Breaker Type } & \text { Part Number } & \text { Price } & \text { Description } \\
\hline \begin{array}{l}\text { BW125 } \\
\text { BW250 }\end{array}
$$ \& BW9Q1CA \& \& Use to lock out BW125 and BW 250 series MCCBs. <br>

Lock not included\end{array}\right]\)| BW400, BW630, |
| :--- |
| BW800 |



