# Fuji Molded Case Circuit Breakers Field-mountable Accessories





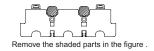
### **Defeatable Rotary Handle Operating Mechanisms**

#### BW9V0CA shown

	Rotary Operating Handles for Fuji MCCBs – Selection Guide										
				V-type Handle		optional shaft 3.102 (155))		ptional shaft 567 (624))		V-type	
Breaker Type	V-type Handle	Price F	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	Mounting Screw	Handle Mass Ib. (kg)		
BW125	BW9V0CA		4.134±0.078	9.843±0.078	5.512 to 9.843	28.307±0.078	28.307 - 5.591	M4 2 25 (05)	1 10 (0 07)		
BW250	BW9V0GA		(105±2)	(250±2)	(140 to 250)	(719±2)	(124 - 719)	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
- For BW250 Series only: When mounting a terminal cover, cut away part of it because it hides the mounting screws for the breaker.

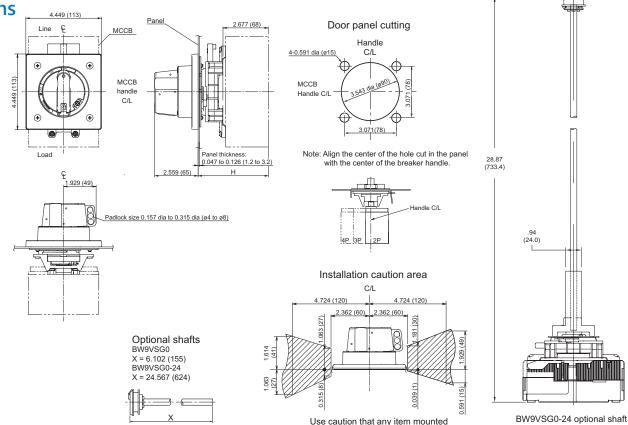


125A, 250A Frame V type handle

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

#### **Dimensions**

mm [inches]



in shaded area can move freely

Breaker and Shaft Assembly

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	Rotary Operating Handles for Fuji MCCBs – Selection Guide									
Procker	Dunalina II tama	V-type Price Handle	V-type Handle	With the optional shaft (x= 3.504 (89))		With the o (x= 24	Mounting	V-type		
	V-type Handle		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	Mounting Screw	Handle 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:

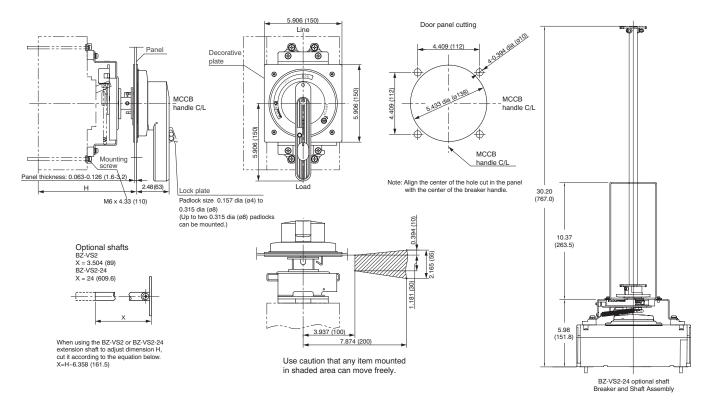
- · Handle is an operating mechanism only; not for sealing enclosure door.
- · Not available for side mounting

#### **Dimensions**

mm [inches]

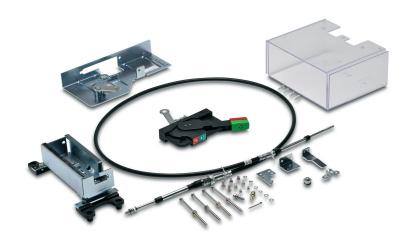
400A, 630A, 800A Frame V type handle

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



## Fuji Molded Case Circuit Breakers Field-mountable Accessories

### **Defeatable Flexible Handle Operating Mechanisms**





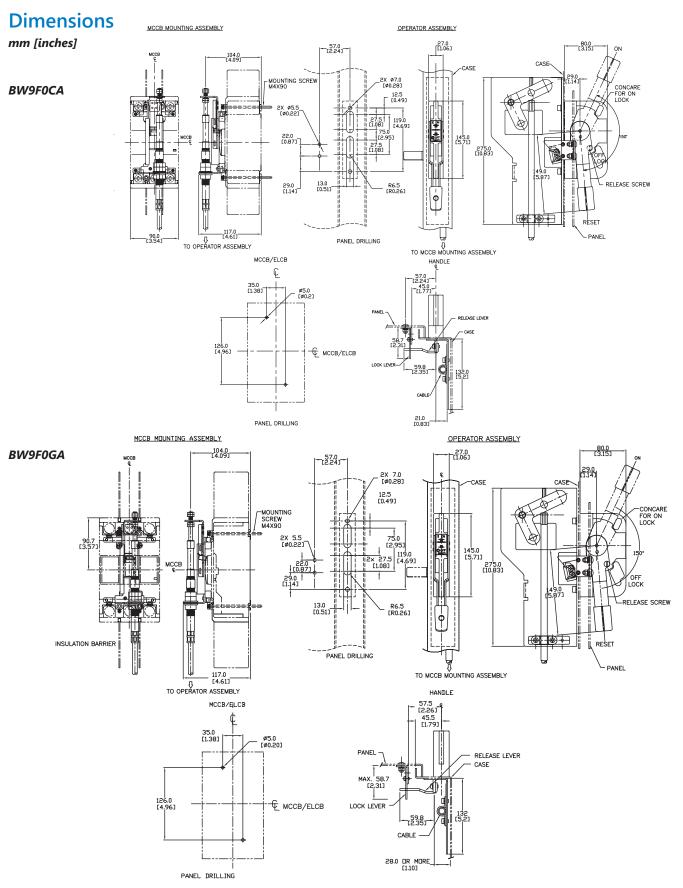
BW9F0JA-20A shown

	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				
BW125	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				

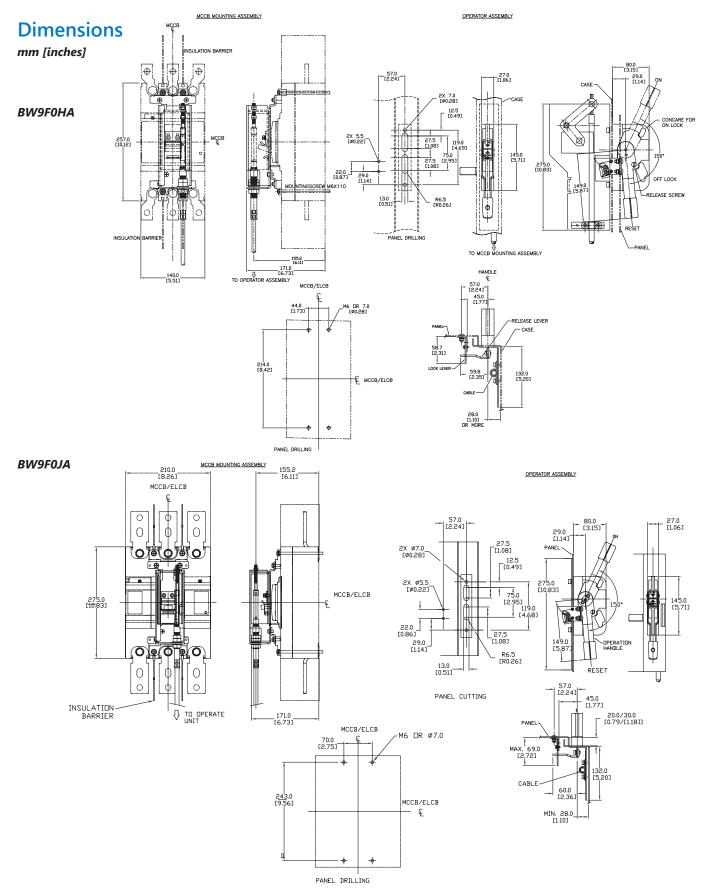
<sup>\*</sup>Terminal covers for line side and load side included with Flange Disconnects. 2/pk

	Flex Handle Specifications							
Operating instructions	Operation     Panel door cannot be	<ul> <li>Operating handle facing up, Breaker is in ON position.</li> <li>Operating handle facing down, Breaker is in OFF position or is reset.</li> <li>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.</li> <li>Release screw is standard. If you want to open a panel door in ON position, please turn the release screw using flat head screwdriver.</li> </ul>						
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 IP54 (IEC60529)							
Conforming Standards	NFPA 79(2007), 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 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	Guillin	
		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.

	11 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	А	С	DC		Time Poting of Coil	One making Times (ma)			
Breaker Type	Voltage (V)	VA	Voltage (V)	W	Time Rating of Coil	Operating Time (ms)			
DIMAGE DIMAGO	24	50	24	50	Continuous	13-21			
BW125, BW250	100-120	50	100-110	50	(with 1 N.O. contact to prevent coil burnout)				
BW400, BW630, BW800	24-48	2	24-48	2	Continuous	0.20			
	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							
Dunales Time	A	С	DC				
Breaker Type	Voltage (V)	VA	Voltage (V)	W			
BW125* <sup>1</sup> BW250* <sup>1</sup>	-	-	24	5			
BW250**	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

Replacement Lug Kits for Fuji MCCBs – Selection Guide						
Part Number	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.

<sup>\*1</sup> 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.

<sup>\*2</sup> 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.

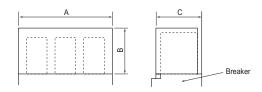


BW9BTHA-L3W shown

Terminal Covers for Fuji MCCBs — Selection Guide									
Breaker Type	Part Number	Price	Description	Dimensions inch (mm)					
				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	BW9QNHA		Use to lock out BW400, BW600 and BW800 MCCBs.  Lock not included.				



BW9Q1CA shown