Fuji Molded Case Circuit Breakers Field-mountable Accessories

Defeatable Rotary Handle Operating Mechanisms



BW9V0CA shown

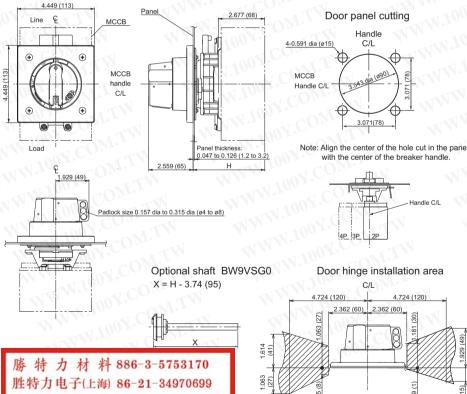
N.	Rotary Operating Handles for Fuji MCCBs – Selection Guide								
Drookor	Burnelow W. towns	- XXI 1	Standard Type	Standard Type With the optional shaft (x= 6.063 (154))					
Breaker Type V-type Handle Price	H: inch(mm)	H: inch(mm)	m) Area in which the hinge with H can be installed		Mass lb. (kg)				
BW125	BW9V0CA	<>	4.134±0.078 (105±2)	9.843±0.078 (250±2)	5.512 to 9.843 (140 to 250)	M4 x 3.35 (85)	1.48 (0.67)		
BW250	BW9V0GA	<>	4.134±0.078(105±2)	9.843±0.078 (250±2)	5.512 to 9.843 (140 to 250)	M4 x 3.35 (85)	1.48 (0.67)		
BW400	BW9V0HA	<>	N.100	Divi	TIM I I	COMP	a N		
BW630 BW800	BW9V0JA	<>	7.48±0.078 (190±2)	9.843±0.078 (250±2)	7.953 to 9.843 (202 to 250)	M6 x 4.33 (110)	4.85 (2.2)		

Notes:

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

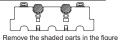


Dimensions: inch (mm)

Http://www. 100y. com. tw Install the door hinge in the shaded	ırea.
Breaker type Handle type Standard type H: inch(mm) H: inch(mm) Area in which the hinge with H can be installed Mounting screw	Ma: lb.

Breaker type	Handle type	Standard type	With the option	onal shaft (X=6.063(154))	Mounting	Mass
		H: inch(mm)	H: inch(mm)	Area in which the hinge	screw	lb. (kg)
				with H can be installed		, ,,
BW125	BW9V0CA	4.134±0.078	9.843±0.078		M4 x 3.35(85)	1.48 (0.67)
		(105±2)	(250±2)	(140 to 250)		
BW250	BW9V0GA	4.134±0.078 (105±2)	9.843±0.078 (250±2)	5.512 to 9.843 (140 to 250)	M4 x 3.35(85)	1.48 (0.67)

- 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.



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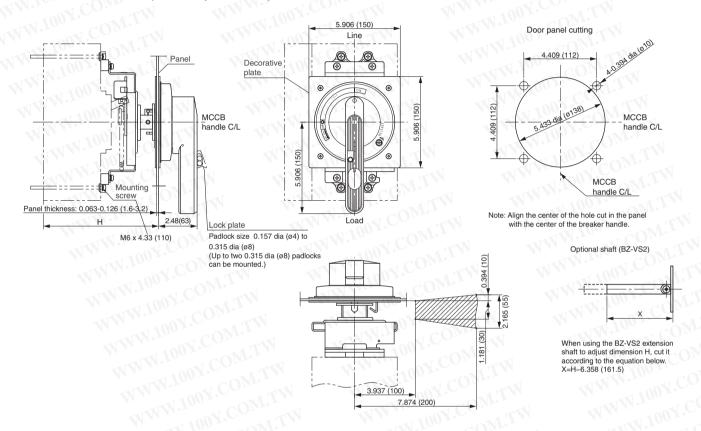
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Fuji Molded Case Circuit Breakers – Field-mountable Accessories

Dimensions

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

• BW9V0HA, BW9V0JA (BZ-VS2: optional shaft)



Install the door hinge in the shaded area.

Breaker type	Handle	ndle Standard type		With the optional shaft (X = 3.48 (88.5)		
type				Area in which the hinge with H can be installed	lb. (kg)	
BW400	BW9V0HA	7.48±0.078	9.843±0.078	7.953 to 9.843 (202 to 250)	4.85 (2.2)	
BW630, BW800	BW9V0JA	(190±2)	(250±2)	N WWW.	V.Co.	

Note: • The handle is an operating mechanism only; not for sealing enclosure door.

Not available for side mounting

Dimensions: inch (mm)

Fuji Molded Case Circuit Breakers Field-mountable Accessories

Defeatable Flexible Handle Operating Mechanisms



(M4 or ø5)

0.512

(13)

Panel drilling

BW9F0CA-15A 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				
BW 120	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				
BWZ3U	BW9F0GA-20A	<>	Nema 12 flexible shaft handle for 250A frame. 78.74" (2m) cable				
DU/400	BW9F0HA-15A	<>	Nema 12 flexible shaft handle for 400A frame. 59.06" (1.5m)cable				
RWANN	BW9F0HA-20A	<>	Nema 12 flexible shaft handle for 400A frame. 78.74" (2m) cable				

	Flex Handle Sp	ecifications					
Operating instructions	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				
Mechanical Endurance (cycles)	10,000	8,000	6,000				
Ambient Temperature	14 to 140F (- 10 to 40°C))	TIN TO				
Relative Humidity	less than 95% RH		1007.0				
Protection	NEMA Type12 IP54 (IEC60529)						
Conforming Standards	NFPA 79(2007), ANSI(Lockout), OSHA(1910.147, Lockout/tagout), UL489(cUL)						
Environment	No excessive dust, smoke	e, corrosive gases, flamn	nable gases, steam or salt.				

• BW9F0CA Drive section Operation section 3.937 (100) .094 (104) MCCB/ELCB 3.15 (80) 1.063 2.756 (70) (27) 2.559 (65) 2.244 (57).142 (29) 1.772 (45) ON lock 102 (155) ELCB (69 10.827 (275) Insulation barrier .866 3.543 (90) 嘂 Terminal Release screw cover φ 2.244 (57) Û MCCB/ELCB ç 1.102(28) 1.181 RESET (30)MCCB/ ELCB 5.197 (132) 3.866 • This product consists of a drive section and an operation section. • The operation section can be mounted either to the right or to the left on the panel depending 0.197dia

-R0.256 [R6.5]

.083 (27.

on the mounting position of the release lever.

used at one time.

For the OFF lock, up to three 0.394 dia (φ10) padlocks can be used at one time

 *2 In the ON position, up to two padlocks or lockout hasps up to 0.394 dia (10mm) can be

Set the height to 20mm or 30mm (0.787" or 1.181"). Adjust the lock lever depending on the setting.

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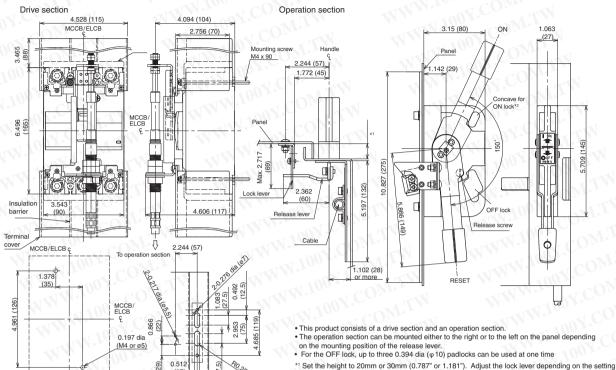
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BW9F0GA



35 Panel drilling

(13)

Panel drilling

• BW9F0HA

Dimensions: inch (mm) Drive section Operation section 6.102(155) MCCB/ELCB Terminal 1.063 (27 7.48 (190) 4.252 (108) 2.244 (57) Insulation 1.772 (45) barrier Concave for ON lock* 10.827 (275) 2.71 Max. Release screw To operation section 🖓 2.244 (57) MCCB/ELCB 0.276 dia (M6 or ø7) RESET 1.102 (28) or more 425 (214) to 8.504 (216) MCCB. This product consists of a drive section and an operation section. The operation section can be mounted either to the right or to the left on the panel depending on the mounting position of the release lever. • For the OFF lock, up to three 0.394 dia (φ 10) padlocks can be used at one time

*2 In the ON position, up to two padlocks or lockout hasps up to 0.394 dia (10mm) can be used at one time.

*1 Set the height to 20mm or 30mm (0.787" or 1.181"). Adjust the lock lever depending on the set

*2 In the ON position, up to two padlocks or lockout hasps up to 0.394 dia (10mm) can be

Fuji Molded Case Circuit Accessories



BW9W1SHA shown

Auxiliary Contacts

The auxiliary contacts are accessory contacts for the indication of circuit breaker openclosed or tripped.

AM	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	A DOT LE	WTI	MA	1100 X.C	TIME	1//	1003	TIMO
WW.	Rated	Make/Break C	Current (A)	W. I	COLL	1	11/1/11	100
Breaker Type	Thermal	AC			DC			Minimum Load Current
	Current (A)	Voltage (V)	Res. Load	Ind. Load	Voltage (V)	Res. Load	Ind. Load	Luau Guirein
BW125, BW250, BW400 BW630, BW800		24	5	5	24	4	3	ON.CO.
		48 5 5	48	2.5	1111	5V DC 160 mA		
		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	- 1 TW	OFF	Trip	11/100 -		
Auxiiary switch	11/AXcL	14/AXaL	WV	11/AXcL 14/AXaL	1007		
SPD	Γ	OM		SIN-3			
	(1)	12/AXbL		12/AXbL] W. W. 100		



BW9FRG0 shown

Shunt Trips

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

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							
Proakor Tuno	AC	AC			Time Rating of Coil	Operating Time (ms)		
Breaker Type	Voltage (V)	VA .	Voltage (V)	W	Tillie natility of Coll	Operating Time (ms)		
BW125, BW250	24	50	24	50	Continuous	13-21		
	100-120	50	100-110	50	(with 1 N.O. contact to prevent coil burnout)	13-21		
BW400,	24-48	2	24-48	2	Continuous	8-20		
BW630, BW800	100-240	3	100-220	3	Continuous			
Note: Allowable ope		AC voltage: 85% to DC voltage: 75% to		•				

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Fuji Molded Case Circuit Breakers – Accessories

Undervoltage Releases

Undervoltage Release will trip the circuit breaker when 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)			

ov.C			
	V.S		1
W.M	3	ON1.	

BW9RGAR s	hown
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Ratings of Undervoltage Trip					
Breaker Type BW125*1 BW250*1	AC	WT	DC		
	Voltage (V)	VA	Voltage (V)	W	
	100 7. CO	W. J.	24	5	
DVV230 +	110 - 130	5	- 7/	1.M. Too.	
BW400* ² BW630* ² BW800* ²	24	2	24	2	
BW800* ²	120 - 130	CO 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.

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



BW9SL0GA-3 shown

Replacement Lugs

Part Number	Price	Description Replacement lug kit for BW125 series MCCB. 75°C. Cu only
BW9SLOCA-3	<>	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

^{*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.

Fuji Molded Case Circu Accessories

Terminal Covers

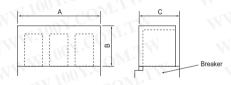
Terminal covers act as guards to shield the operator from touching live terminations. They fit either the line or load side.



BW9BTHA-L3W shown WW.100Y.COM.T

Propher Corios	Dart Number	Price	Description	Dimensions inch (mm)		
Breaker Series Part Number		FIILE	Description	A	В	C
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

Dimensions of Terminal Covers: inch (mm)



Lockout Attachment

Lockout Attachments for Fuji MCCBs – Selection Guide				
Breaker Series	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

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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 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.



Caution

- Adhere to the number of strands of wire indicated in the table.
- Multiconductor wire can not be connected.
- Two wires cannot be connected to the lug terminal at once.
- Do not solder the end of the wire.

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)	×1 CO7			
1 to 4/0 (42.4 to 107.2)	19			
250 to 500 (127 to 250)	37			

Maximum	Wire Sizes	and Tightening Torq	ue O	胜特力电子(深圳
Tune OX COM	Rated	Wire Size	Tightening Torque	Http://ww
Type	Current (A)	AWG or MCM (mm2)	Lug Terminal*	
M. To CO	15	14 AWG (2.1mm ²)	ON CC	
	20	12 AWG (3.3mm ²)	100	
	30	10 AWG (5.3mm ²)	1007.0	
BW125	40	8 AWG (8.4mm ²)	· Voor	
	50	8 AWG (8.4mm ²)	W.100	
	60	6 AWG (13.3mm ²)	51 lbin.	
	70	4 AWG (21.1mm ²)	(5.8 N-m)	
	75	4 AWG (21.1mm ²)	M.Ing	
	80	4 AWG (21.1mm ²)	10	
	90	3 AWG (26.7mm ²)	M. M.	
	100	3 AWG (26.7mm ²)		
	125	1 AWG (42.4mm ²)	W 1.	
MM M.	125	1 AWG (42.4mm ²)	MM	
	150	1/0 AWG (53.5mm ²)	TWV.	
BUIGEO	175	2/0 AWG (67.4mm ²)	204 lbin.	
BW250	200	3/0 AWG (85.0mm ²)	(23 N-m)	
	225	4/0 AWG (107.2mm ²)	17.7	
	250	250 MCM (127mm ²)		
W	250	250 MCM (127mm ²)		
	300	350 MCM (177mm ²)	385 lbin	
BW400	350	500 MCM (253mm ²)	(43.5 N-m)	
	400	3/0 AWGx2 (85.0mm ² x2)	282 lb-in (31.9 N-m)	
BW630	500	250-500 MCMx2	275 lbin.	
DVVU3U	600	250-500 MCMx2	(31.07 N-m)	
DIMIONO	700	250-500 MCMx2	275 lbin.	
BW800	800	3/0 AWG-300 MCMx3	(31.07 N-m)	

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

*Note: Lug terminals are supplied as standard.