

# Fuji Molded Case Circuit Breakers – Wire Range Specifications



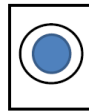
## Wiring

- 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.



- 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.

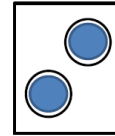
Allowable Wire Specifications for Lug Terminals	
Wire Size AWG or MCM (mm <sup>2</sup> )	Number of Wire Strands
14 to 2 (2.1 to 33.6)	7
1 to 4/0 (42.4 to 107.2)	19
250 to 500 (127 to 250)	37



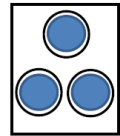
Rated current  
15A to 350A



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

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