

# Thermal-magnetic Molded Case Circuit Breakers

100 Ampere Frame  
Class 650

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Thermal-magnetic molded case circuit breakers shown on pages 6-20-6-24 are permanent trip UL Listed, CSA Certified, IEC rated, and also meet the requirements of Federal Specification W-C-375B/GEN as indicated on pages 6-4-6-7. For I-Line® molded case circuit breakers, see listings on pages 8-25-8-28.



**FAL**  
1-pole  
15-100 Amperes



**FAL/FHL**  
2-pole  
15-100 Amperes



**FAL/FHL/FCL**  
3-pole  
15-100 Amperes

### Interrupting Ratings (kA)

	FAL240	FAL480	FCL
240 V	10	18 (1P), 25 (2, 3P)	100
480 V	...	18	65
600 V	...	...	...

### Circuit Breaker Termination Options

(Third character of catalog number)

- F=No Lugs
- L=Lugs both ends
- M=Lugs "ON" end only
- P=Lugs "OFF" end only

Accessories .....	pages 6-36-6-38
Optional Lugs .....	pages 6-43, 6-44
Dimensions .....	pages 6-49, 6-50
Enclosures .....	pages 6-51-6-54

### F-frame—100 A, Thermal-magnetic (240 Vac)

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		Terminal Wire Range
	Hold	Trip	Catalog Number	Price	
<b>1-pole, 120 Vac</b>					
15	275	600	FAL12015	\$132.	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20	275	600	FAL12020	132.	
25	275	600	FAL12025	132.	
30	275	600	FAL12030	132.	
35	400	850	FAL12035	132.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40	400	850	FAL12040	132.	
45	400	850	FAL12045	132.	
50	400	850	FAL12050	132.	
60	800	1450	FAL12060	132.	
70	800	1450	FAL12070	174.	
80	800	1450	FAL12080	174.	
90	900	1700	FAL12090	174.	
100	900	1700	FAL12100	174.	
<b>2-pole, 240 Vac</b>					
15	275	600	FAL22015	\$222.	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20	275	600	FAL22020	222.	
25	275	600	FAL22025	222.	
30	275	600	FAL22030	222.	
35	400	850	FAL22035	222.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40	400	850	FAL22040	222.	
45	400	850	FAL22045	222.	
50	400	850	FAL22050	222.	
60	800	1450	FAL22060	222.	
70	800	1450	FAL22070	362.	
80	800	1450	FAL22080	362.	
90	900	1700	FAL22090	362.	
100	900	1700	FAL22100	362.	
<b>3-pole, 240 Vac</b>					
15	275	600	FAL32015	\$330.	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20	275	600	FAL32020	330.	
25	275	600	FAL32025	330.	
30	275	600	FAL32030	330.	
35	400	850	FAL32035	330.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40	400	850	FAL32040	330.	
45	400	850	FAL32045	330.	
50	400	850	FAL32050	330.	
60	800	1450	FAL32060	330.	
70	800	1450	FAL32070	469.	
80	800	1450	FAL32080	469.	
90	900	1700	FAL32090	469.	
100	900	1700	FAL32100	469.	

### F-frame—100 A, Thermal-magnetic (480 Vac)

Ampere Rating	AC Magnetic Trip Settings		Standard Interrupting		Extra High Interrupting		Terminal Wire Range	
	Hold	Trip	Catalog Number	Price	Catalog Number	Price	FA Lugs	FC Lugs
<b>1-pole, 277 Vac, 125 Vdc</b>								
15	275	600	FAL14015	\$167.	...	...	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	...
20	275	600	FAL14020	167.	...	...		
25	275	600	FAL14025	167.	...	...		
30	275	600	FAL14030	167.	...	...		
35	400	850	FAL14035	167.	...	...	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	...
40	400	850	FAL14040	167.	...	...		
45	400	850	FAL14045	167.	...	...		
50	400	850	FAL14050	167.	...	...		
60	800	1450	FAL14060	167.	...	...		
70	800	1450	FAL14070	208.	...	...		
80	800	1450	FAL14080	208.	...	...		
90	900	1700	FAL14090	208.	...	...		
100	900	1700	FAL14100	208.	...	...		
<b>2-pole, 480 Vac, 250 Vdc▲</b>								
15	275	600	FAL24015	\$406.	...	...	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	CU30FA4 (1) #14-#10 AWG Cu only
20	275	600	FAL24020	406.	...	...		
25	275	600	FAL24025	406.	...	...		
30	275	600	FAL24030	406.	...	...		
35	400	850	FAL24035	406.	...	...	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	AL100FA4 (1) #14-#3 AWG Cu or (1) #12-#1 AWG Al
40	400	850	FAL24040	406.	...	...		
45	400	850	FAL24045	406.	...	...		
50	400	850	FAL24050	406.	FCL24050	\$ 965.		
60	800	1450	FAL24060	406.	FCL24060	965.		
70	800	1450	FAL24070	525.	FCL24070	1188.		
80	800	1450	FAL24080	525.	FCL24080	1188.		
90	900	1700	FAL24090	525.	FCL24090	1188.		
100	900	1700	FAL24100	525.	FCL24100	1188.		
<b>3-pole, 480 Vac, 250 Vdc■</b>								
15	275	600	FAL34015	\$521.	FCL34015	\$1206.	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al	CU30FA4 (1) #14-#10 AWG Cu only
20	275	600	FAL34020	521.	FCL34020	1206.		
25	275	600	FAL34025	521.	FCL34025	1206.		
30	275	600	FAL34030	521.	FCL34030	1206.		
35	400	850	FAL34035	521.	FCL34035	1206.	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al	AL100FA4 (1) #14-#3 AWG Cu or (1) #12-#1 AWG Al
40	400	850	FAL34040	521.	FCL34040	1206.		
45	400	850	FAL34045	521.	FCL34045	1206.		
50	400	850	FAL34050	521.	FCL34050	1206.		
60	800	1450	FAL34060	521.	FCL34060	1206.		
70	800	1450	FAL34070	616.	FCL34070	1484.		
80	800	1450	FAL34080	616.	FCL34080	1484.		
90	900	1700	FAL34090	616.	FCL34090	1484.		
100	900	1700	FAL34100	616.	FCL34100	1484.		

▲ FCL 2-pole circuit breaker built using 3-pole module.  
■ FCL circuit breakers are not rated for 250 Vdc.