

Thermal-magnetic Molded Case Circuit Breakers

100 Ampere Frame

Class 650



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

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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)

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

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

Continuous Current Rating @ 40° C	AC Magnetic Trip Settings		Standard Interrupting		Extra High Interrupting		Terminal Wire Range	
	Hold	Trip	Catalog Number	Price	Catalog Number	Price	FA Lugs	FC Lugs
1-pole, 277 Vac, 125 Vdc								
15	275	600	FAL14015		AL50FA #14-#4 AWG Cu or #12-#4 AWG AI	...
20	275	600	FAL14020		...	...
25	275	600	FAL14025		...	...
30	275	600	FAL14030		...	...
35	400	850	FAL14035		AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG AI	...
40	400	850	FAL14040		...	...
45	400	850	FAL14045		...	...
50	400	850	FAL14050		...	...
60	800	1450	FAL14060		...	...
70	800	1450	FAL14070		...	...
80	800	1450	FAL14080		...	...
90	900	1700	FAL14090		...	...
100	900	1700	FAL14100		...	...
2-pole, 480 Vac, 250 Vdc▲								
15	275	600	FAL24015		FCL24015		AL50FA #14-#4 AWG Cu or #12-#4 AWG AI	CU30FA4 (1) #14-#10 AWG Cu only
20	275	600	FAL24020		FCL24020			
25	275	600	FAL24025		FCL24025			
30	275	600	FAL24030		FCL24030			
35	400	850	FAL24035		FCL24035		AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG AI	AL100FA4 (1) #14-#3 AWG Cu or (1) #12-#1 AWG AI
40	400	850	FAL24040		FCL24040			
45	400	850	FAL24045		FCL24045			
50	400	850	FAL24050		FCL24050			
60	800	1450	FAL24060		FCL24060			
70	800	1450	FAL24070		FCL24070			
80	800	1450	FAL24080		FCL24080			
90	900	1700	FAL24090		FCL24090			
100	900	1700	FAL24100		FCL24100			
3-pole, 480 Vac, 250 Vdc■								
15	275	600	FAL34015		FCL34015		AL50FA #14-#4 AWG Cu or #12-#4 AWG AI	CU30FA4 (1) #14-#10 AWG Cu only
20	275	600	FAL34020		FCL34020			
25	275	600	FAL34025		FCL34025			
30	275	600	FAL34030		FCL34030			
35	400	850	FAL34035		FCL34035		AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG AI	AL100FA4 (1) #14-#3 AWG Cu or (1) #12-#1 AWG AI
40	400	850	FAL34040		FCL34040			
45	400	850	FAL34045		FCL34045			
50	400	850	FAL34050		FCL34050			
60	800	1450	FAL34060		FCL34060			
70	800	1450	FAL34070		FCL34070			
80	800	1450	FAL34080		FCL34080			
90	900	1700	FAL34090		FCL34090			
100	900	1700	FAL34100		FCL34100			

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

Thermal-magnetic Molded Case Circuit Breakers

100, 250 Ampere Frame

Class 525, 650, 734, 820



FIL36100



GJL 3-pole circuit breaker



QBL 2 and 3-pole 70-250 Amperes

F-frame—100 A, Thermal-magnetic (600 Vac)

Continuous Current Rating @ 40° C	AC Magnetic Trip Settings		Standard Interrupting		High Interrupting		Current Limiting		Terminal Wire Range
	Hold	Trip	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	
1-pole, 277 Vac, 125 Vdc									
15	275	600	FHL16015	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20	275	600	...	...	FHL16020	...	...	...
25	275	600	...	...	FHL16025	...	...	...
30	275	600	...	...	FHL16030	...	...	...
35	400	850	FHL16035	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40	400	850	...	...	FHL16040	...	...	...
45	400	850	...	...	FHL16045	...	...	...
50	400	850	...	...	FHL16050	...	...	...
60	800	1450	...	...	FHL16060	...	...	...
70	800	1450	...	...	FHL16070	...	...	...
80	800	1450	...	...	FHL16080	...	...	...
90	900	1700	...	...	FHL16090	...	...	...
100	900	1700	...	...	FHL16100	...	...	...

2-pole, 600 Vac, 250 Vdc

15	275	600	FAL26015	...	FHL26015	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20	275	600	FAL26020	...	FHL26020	...	FIL26020	...	
25	275	600	FAL26025	...	FHL26025	...	FIL26025	...	
30	275	600	FAL26030	...	FHL26030	...	FIL26030	...	
35	400	850	FAL26035	...	FHL26035	...	FIL26035	...	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40	400	850	FAL26040	...	FHL26040	...	FIL26040	...	
45	400	850	FAL26045	...	FHL26045	...	FIL26045	...	
50	400	850	FAL26050	...	FHL26050	...	FIL26050	...	
60	800	1450	FAL26060	...	FHL26060	...	FIL26060	...	
70	800	1450	FAL26070	...	FHL26070	...	FIL26070	...	
80	800	1450	FAL26080	...	FHL26080	...	FIL26080	...	
90	900	1700	FAL26090	...	FHL26090	...	FIL26090	...	
100	900	1700	FAL26100	...	FHL26100	...	FIL26100	...	

3-pole, 600 Vac, 250 Vdc

15	275	600	FAL36015	...	FHL36015	...	FIL36020	...	AL50FA #14-#4 AWG Cu or #12-#4 AWG Al
20	275	600	FAL36020	...	FHL36020	...	FIL36025	...	
25	275	600	FAL36025	...	FHL36025	...	FIL36030	...	
30	275	600	FAL36030	...	FHL36030	...	FIL36030	...	
35	400	850	FAL36035	...	FHL36035	...	FIL36035	...	AL100FA #14-#1/0 AWG Cu or #12-#1/0 AWG Al
40	400	850	FAL36040	...	FHL36040	...	FIL36040	...	
45	400	850	FAL36045	...	FHL36045	...	FIL36045	...	
50	400	850	FAL36050	...	FHL36050	...	FIL36050	...	
60	800	1450	FAL36060	...	FHL36060	...	FIL36060	...	
70	800	1450	FAL36070	...	FHL36070	...	FIL36070	...	
80	800	1450	FAL36080	...	FHL36080	...	FIL36080	...	
90	900	1700	FAL36090	...	FHL36090	...	FIL36090	...	
100	900	1700	FAL36100	...	FHL36100	...	FIL36100	...	

POWERPACT® G-frame—100 A, Thermal-magnetic (600Y/347 Vac)

Continuous Current Rating @ 40° C	AC Magnetic Trip Settings		J Interrupting		Terminal Wire Range
	Hold	Trip	Catalog Number	Price	
3-pole, Vac, Vdc					
15	600	1200	GJL36015	...	#14-#1/0 AWG Cu #8-#1/0 AWG Al
20	600	1200	GJL36020	...	
30	600	1200	GJL36030	...	
40	600	1200	GJL36040	...	
50	800	1400	GJL36050	...	
60	800	1400	GJL36060	...	
70	800	1400	GJL36070	...	
80	800	1400	GJL36080	...	
90	800	1400	GJL36090	...	
100	800	1400	GJL36100	...	

POWERPACT Q-frame—250 A, Thermal-magnetic (240 Vac)

Continuous Current Rating @ 40° C	AC Magnetic Trip Settings		B Interrupting		D Interrupting		G Interrupting		J Interrupting	
	Hold	Trip	Catalog Number	Price†	Catalog Number	Price†	Catalog Number	Price†	Catalog Number	Price†
2-pole, 240 Vac										
70	1000	1800	QBL22070	...	QDL22070	...	QGL22070	...	QJL22070	...
80	1000	1800	QBL22080	...	QDL22080	...	QGL22080	...	QJL22080	...
90	1000	1800	QBL22090	...	QDL22090	...	QGL22090	...	QJL22090	...
100	1200	2400	QBL22100	...	QDL22100	...	QGL22100	...	QJL22100	...
110	1200	2400	QBL22110	...	QDL22110	...	QGL22110	...	QJL22110	...
125	1200	2400	QBL22125	...	QDL22125	...	QGL22125	...	QJL22125	...
150	1200	2400	QBL22150	...	QDL22150	...	QGL22150	...	QJL22150	...
175	1200	2400	QBL22175	...	QDL22175	...	QGL22175	...	QJL22175	...
200	1200	2400	QBL22200	...	QDL22200	...	QGL22200	...	QJL22200	...
225	1200	2400	QBL22225	...	QDL22225	...	QGL22225	...	QJL22225	...
250	1200	2400	QBL22250■	...	QDL22250■	...	QGL22250■	...	QJL22250■	...
3-pole, 240 Vac										
70	1000	1800	QBL32070	...	QDL32070	...	QGL32070	...	QJL32070	...
80	1000	1800	QBL32080	...	QDL32080	...	QGL32080	...	QJL32080	...
90	1000	1800	QBL32090	...	QDL32090	...	QGL32090	...	QJL32090	...
100	1200	2400	QBL32100	...	QDL32100	...	QGL32100	...	QJL32100	...
110	1200	2400	QBL32110	...	QDL32110	...	QGL32110	...	QJL32110	...
125	1200	2400	QBL32125	...	QDL32125	...	QGL32125	...	QJL32125	...
150	1200	2400	QBL32150	...	QDL32150	...	QGL32150	...	QJL32150	...
175	1200	2400	QBL32175	...	QDL32175	...	QGL32175	...	QJL32175	...
200	1200	2400	QBL32200	...	QDL32200	...	QGL32200	...	QJL32200	...
225	1200	2400	QBL32225	...	QDL32225	...	QGL32225	...	QJL32225	...
250	1200	2400	QBL32250■	...	QDL32250■	...	QGL32250■	...	QJL32250■	...

Interrupting Ratings (kA)

Voltage	F-frame			Q-frame
	FAL	FHL	FIL	
240 V	25	25 (1P:35-100 A), 65 (2, 3P)	200	100★
480 V	18	25 (2, 3P)	200	...
600 V	14	18 (2, 3P)	100	...

♦ GJL is rated 18 kA at 600Y/347 Vac.

★ 3-pole QJ circuit breakers are rated at 208Y/120 Vac 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

▲ Replacement lugs are not available for POWERPACT Q-frame circuit breakers. Lugs for the POWERPACT Q-frame circuit breakers accept (1) #14 AWG-300 kcmil.

■ 250 A lugs are suitable for copper conductors only.