

Molded Case Circuit Breakers

Thermal-magnetic molded case circuit breakers shown on pages 7-49 through 7-51 are permanent trip UL Listed, CSA Certified, IEC rated, and also meet the requirements

F-Frame Thermal-Magnetic Circuit Breakers

Class 650

of Federal Specification W-C-375B/GEN as indicated on pages 7-4 through 7-7. For I-Line[®] molded case circuit breakers, see listings on pages 9-23 through 9-30.

Table 7.120: F-Frame—100 A, Thermal-Magnetic, 240 Vac, Standard Interrupting

Amperes (Rating)	Fixed AC Magnetic Trip		1 P		2 P		3 P		Terminal Wire Range (AWG)
			120 Vac		240 Vac		240 Vac		
	Model	Trip	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	
15 A	2775-A	6000 A	FAL320715	198.00	FAL320715	323.00	FAL320715	495.00	AL30FA 14-8 Cu or 12-4 Al
20 A	2775-A	8000 A	FAL320720	198.00	FAL320720	323.00	FAL320720	495.00	
25 A	2775-A	8000 A	FAL320725	198.00	FAL320725	323.00	FAL320725	495.00	
30 A	2775-A	8000 A	FAL320730	198.00	FAL320730	323.00	FAL320730	495.00	
35 A	4000-A	8000 A	FAL320735	198.00	FAL320735	323.00	FAL320735	495.00	AL100FA 14-1/2 Cu or 12-1/2 Al
40 A	4000-A	8000 A	FAL320740	198.00	FAL320740	323.00	FAL320740	495.00	
45 A	4000-A	8000 A	FAL320745	198.00	FAL320745	323.00	FAL320745	495.00	
50 A	4000-A	8000 A	FAL320750	198.00	FAL320750	323.00	FAL320750	495.00	
60 A	8000-A	14000 A	FAL320760	198.00	FAL320760	323.00	FAL320760	495.00	
70 A	8000-A	14000 A	FAL320770	261.00	FAL320770	343.00	FAL320770	794.00	
80 A	8000-A	14000 A	FAL320780	261.00	FAL320780	343.00	FAL320780	794.00	
90 A	8000-A	17000 A	FAL320790	261.00	FAL320790	343.00	FAL320790	794.00	
100 A	8000-A	17000 A	FAL321000	261.00	FAL321000	343.00	FAL321000	794.00	

Table 7.121: F-Frame—100 A, Thermal-Magnetic, 480 Vac, Standard Interrupting

Amperes Rating	Fixed AC Magnetic Trip		1P		2P		3P		Terminal Wire Range (AWG)
			277 Vac, 120 Vac		480 Vac, 250 Vac		480 Vac, 250 Vac		
	Model	Trips	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	
15 A	2775-A	6000 A	FAL340715	251.00	FAL340715	609.00	FAL340715	762.00	AL30FA 14-8 Cu or 12-4 Al
20 A	2775-A	8000 A	FAL340720	251.00	FAL340720	609.00	FAL340720	762.00	
25 A	2775-A	8000 A	FAL340725	251.00	FAL340725	609.00	FAL340725	762.00	
30 A	2775-A	8000 A	FAL340730	251.00	FAL340730	609.00	FAL340730	762.00	
35 A	4000-A	8000 A	FAL340735	251.00	FAL340735	609.00	FAL340735	762.00	AL100FA 14-1/2 Cu or 12-1/2 Al
40 A	4000-A	8000 A	FAL340740	251.00	FAL340740	609.00	FAL340740	762.00	
45 A	4000-A	8000 A	FAL340745	251.00	FAL340745	609.00	FAL340745	762.00	
50 A	4000-A	8000 A	FAL340750	251.00	FAL340750	609.00	FAL340750	762.00	
60 A	8000-A	14000 A	FAL340760	251.00	FAL340760	609.00	FAL340760	762.00	
70 A	8000-A	14000 A	FAL340770	312.00	FAL340770	768.00	FAL340770	924.00	
80 A	8000-A	14000 A	FAL340780	312.00	FAL340780	768.00	FAL340780	924.00	
90 A	8000-A	17000 A	FAL340790	312.00	FAL340790	768.00	FAL340790	924.00	
100 A	8000-A	17000 A	FAL341000	312.00	FAL341000	768.00	FAL341000	924.00	

Table 7.122: F-Frame—100 A, Thermal-Magnetic, 600 Vac

Amperes Rating	Fixed AC Magnetic Trip		1P		2P		3P		Terminal Wire Range (AWG)
			High Interrupting 277 Vac, 120 Vac		High Interrupting 600 Vac, 250 Vac		High Interrupting 600 Vac, 250 Vac		
	Model	Tripp	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	
15 A	2775-A	6000 A	FHL360715	492.00	FHL360715	794.00	FHL360715	1358.00	AL30FA 14-8 Cu or 12-4 Al
20 A	2775-A	8000 A	FHL360720	492.00	FHL360720	794.00	FHL360720	1358.00	
25 A	2775-A	8000 A	FHL360725	492.00	FHL360725	794.00	FHL360725	1358.00	
30 A	2775-A	8000 A	FHL360730	492.00	FHL360730	794.00	FHL360730	1358.00	
35 A	4000-A	8000 A	FHL360735	492.00	FHL360735	794.00	FHL360735	1358.00	AL100FA 14-1/2 Cu or 12-1/2 Al
40 A	4000-A	8000 A	FHL360740	492.00	FHL360740	794.00	FHL360740	1358.00	
45 A	4000-A	8000 A	FHL360745	492.00	FHL360745	794.00	FHL360745	1358.00	
50 A	4000-A	8000 A	FHL360750	492.00	FHL360750	794.00	FHL360750	1358.00	
60 A	8000-A	14000 A	FHL360760	492.00	FHL360760	794.00	FHL360760	1358.00	
70 A	8000-A	14000 A	FHL360770	595.00	FHL360770	896.00	FHL360770	1541.00	
80 A	8000-A	14000 A	FHL360780	595.00	FHL360780	896.00	FHL360780	1541.00	
90 A	8000-A	17000 A	FHL360790	595.00	FHL360790	896.00	FHL360790	1541.00	
100 A	8000-A	17000 A	FHL361000	595.00	FHL361000	896.00	FHL361000	1541.00	

Table 7.123: Mechanical Lug KR Information

Circuit Breaker Application				(Number of Wires Per Lug)	Cat. No.	Lugs Per Kit	\$ Price Per Kit
Standard	Amperes Rating	Optional	Amperes Rating	Wire Range			
FAL, FHL, FI	15-300 A	FAL, FHL, FI	35-120 A	(7) 14-4 AWG Cu or (7) 12-4 AWG Al	AL100FA	3	\$7.26*
FAL, FHL, FI	35-100 A	FAL, FHL, FI	45-30 A	(7) 14-1/2 AWG Cu or (7) 12-1/2 AWG Al	AL100FA	3	\$7.26
---	---	FAL	15-120 A	(7) 12-3 AWG Cu or Al	AL100FA	3	\$7.26
---	---	FAL	150 A (200V)	(7) 12-3 AWG Cu or Al	AL150FA	3	\$7.26
---	---	FAL, FHL, FI	10-100	(7) 14-1 AWG Cu	CUR100FA	3	\$7.26
---	---	FAL, FHL	10-100	(7) 12-3 AWG Cu	CUR100TF	3	\$2.00

* For use in the OFF and only, when the OFF and is the load side.

Table 7.124: F-Frame Interrupting Ratings

FAL			FHL		
240 Vac	480 Vac	600 Vac	240 Vac	480 Vac	600 Vac
25 kA	18 kA (1P), 25 kA (2P-3P)	25 kA	25 kA	25 kA (1P), 25 kA (2P-3P)	25 kA
40 kA	18 kA	18 kA	40 kA	25 kA (2P-3P)	25 kA
50 kA	—	—	50 kA	—	50 kA

Termination Option

Termination Letter
F = No Lugs
S = Lugs both ends
P = Lugs OFF end + Lugs ON end
P = Lugs OFF end

For factory-installed termination, please termination letter in the third block of the circuit breaker catalog number.

FAL35100S

L = Termination Letter

NOTE: Consider using PowerPad[®] circuit breakers for situations requiring circuit breaker accessories.

Accessories Supplemental Digest
Compression and Power Distribution Connector Lugs Supplemental Digest
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of 1.00 M NaOH at 25.0 °C in a foam cup calorimeter a reaction occurs and the temperature rises to 32.0 °C calculate the enthalpy change in kJ for this reaction assume the densities of the solutions are 1.00 g/mL and that

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web choose 1 answer the final temperature is closer to t_1 than to t_2 a the final temperature is closer to t_1 than to t_2 the final temperature is exactly halfway between t_1 and t_2 b the final temperature is exactly halfway between t_1 and t_2 the final temperature is closer to t_2 than to t_1 c

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