

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	600 A	FAL320715	198.00	FAL320715	323.00	FAL320715	495.00	AL30FA 14-8 Cu or 12-4 Al
20 A	2775-A	600 A	FAL320720	198.00	FAL320720	323.00	FAL320720	495.00	
25 A	2775-A	600 A	FAL320725	198.00	FAL320725	323.00	FAL320725	495.00	
30 A	2775-A	600 A	FAL320730	198.00	FAL320730	323.00	FAL320730	495.00	
35 A	400 A	800 A	FAL320735	198.00	FAL320735	323.00	FAL320735	495.00	AL100FA 14-10 Cu or 12-10 Al
40 A	400 A	800 A	FAL320740	198.00	FAL320740	323.00	FAL320740	495.00	
45 A	400 A	800 A	FAL320745	198.00	FAL320745	323.00	FAL320745	495.00	
50 A	400 A	800 A	FAL320750	198.00	FAL320750	323.00	FAL320750	495.00	
60 A	800 A	1400 A	FAL320760	198.00	FAL320760	323.00	FAL320760	495.00	
70 A	800 A	1400 A	FAL320770	261.00	FAL320770	343.00	FAL320770	794.00	
80 A	800 A	1400 A	FAL320780	261.00	FAL320780	343.00	FAL320780	794.00	
90 A	800 A	1700 A	FAL320790	261.00	FAL320790	343.00	FAL320790	794.00	
100 A	800 A	1700 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	600 A	FAL340715	251.00	FAL340715	609.00	FAL340715	762.00	AL30FA 14-10 Cu or 12-4 Al
20 A	2775-A	600 A	FAL340720	251.00	FAL340720	609.00	FAL340720	762.00	
25 A	2775-A	600 A	FAL340725	251.00	FAL340725	609.00	FAL340725	762.00	
30 A	2775-A	600 A	FAL340730	251.00	FAL340730	609.00	FAL340730	762.00	
35 A	400 A	800 A	FAL340735	251.00	FAL340735	609.00	FAL340735	762.00	AL100FA 14-10 Cu or 12-10 Al
40 A	400 A	800 A	FAL340740	251.00	FAL340740	609.00	FAL340740	762.00	
45 A	400 A	800 A	FAL340745	251.00	FAL340745	609.00	FAL340745	762.00	
50 A	400 A	800 A	FAL340750	251.00	FAL340750	609.00	FAL340750	762.00	
60 A	800 A	1400 A	FAL340760	251.00	FAL340760	609.00	FAL340760	762.00	AL100FA 14-10 Cu or 12-10 Al
70 A	800 A	1400 A	FAL340770	312.00	FAL340770	768.00	FAL340770	924.00	
80 A	800 A	1400 A	FAL340780	312.00	FAL340780	768.00	FAL340780	924.00	
90 A	800 A	1700 A	FAL340790	312.00	FAL340790	768.00	FAL340790	924.00	
100 A	800 A	1700 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	600 A	FHL360715	492.00	FHL360715	794.00	FHL360715	1358.00	AL30FA 14-8 Cu or 12-4 Al
20 A	2775-A	600 A	FHL360720	492.00	FHL360720	794.00	FHL360720	1358.00	
25 A	2775-A	600 A	FHL360725	492.00	FHL360725	794.00	FHL360725	1358.00	
30 A	2775-A	600 A	FHL360730	492.00	FHL360730	794.00	FHL360730	1358.00	
35 A	400 A	800 A	FHL360735	492.00	FHL360735	794.00	FHL360735	1358.00	AL100FA 14-10 Cu or 12-10 Al
40 A	400 A	800 A	FHL360740	492.00	FHL360740	794.00	FHL360740	1358.00	
45 A	400 A	800 A	FHL360745	492.00	FHL360745	794.00	FHL360745	1358.00	
50 A	400 A	800 A	FHL360750	492.00	FHL360750	794.00	FHL360750	1358.00	
60 A	800 A	1400 A	FHL360760	492.00	FHL360760	794.00	FHL360760	1358.00	AL100FA 14-10 Cu or 12-10 Al
70 A	800 A	1400 A	FHL360770	595.00	FHL360770	896.00	FHL360770	1541.00	
80 A	800 A	1400 A	FHL360780	595.00	FHL360780	896.00	FHL360780	1541.00	
90 A	800 A	1700 A	FHL360790	595.00	FHL360790	896.00	FHL360790	1541.00	
100 A	800 A	1700 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	(10-14-4 AWG Cu or 12-10-4 AWG Al)	(12-10-4 AWG Cu or 12-10-4 AWG Al)			
FAL, FHL, FI	15-30 A	FAL, FHL, FI	35-100 A	(10) 14-4 AWG Cu or (12) 12-4 AWG Al	(12) 12-4 AWG Cu or (12) 12-4 AWG Al	AL30FA	3	\$7.26*
FAL, FHL, FI	35-100 A	FAL, FHL, FI	15-30 A	(12) 14-4 AWG Cu or (12) 12-4 AWG Al	(12) 12-4 AWG Cu or (12) 12-4 AWG Al	AL100FA	3	\$7.26
—	—	FAL, FHL, FI	15-100 A	(12) 12-3 AWG Cu or Al	(12) 12-3 AWG Cu or Al	AL100FA	3	\$7.26
—	—	FAL, FHL, FI	10-100	(12) 14-4 AWG Cu	(12) 14-4 AWG Cu	CUR100FA	3	\$7.26
—	—	FAL, FHL, FI	10-100	(12) 12-3 AWG Cu	(12) 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 both ends + Lugs Off and
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
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Molded Case Circuit Breaker Frame Sizes

Mukund R. Patel



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Shipboard Electrical Power Systems Mukund R. Patel, 2021-07-18 The second edition of *Shipboard Electrical Power Systems* addresses new developments in this rapidly growing field Focusing on the industry trend toward electric propulsion for cruise navy and commercial ships the book aids new or experienced engineers in mastering the cutting edge technologies required for power system design control protection and economic use of power Covering the latest emission standards on ships and the clean power technologies necessary to meet such stringent regulations the book compiles essential information on power system design analysis and operation uniquely bringing all three together under one cover Beginning by covering power system basics the book goes on to detail power generation electrical machines and batteries with new chapters on electric propulsion shipboard emission regulations and clean power technologies Updated throughout to reflect this rapidly changing field the second edition clearly explains complicated electrical concepts using mechanical and hydraulic analogies to aid marine engineers in understanding difficult elements of the field The book is an indispensable resource for well rounded engineering students and professional engineers This textbook is essential reading for students of marine engineering electrical power systems and electrical engineering alongside engineers working on commercial and navy ships on ports on land and offshore rigs

Industrial Power Distribution and Illuminating Systems Kao Chen, 2020-09-23 This book covers all important elements of industrial power

distribution system planning selection of distribution voltages and systems and methods of fault current calculations It also covers the illuminating engineering and design principles based on the latest concepts and approaches

Introduction to Electrical Power and Power Electronics Mukund R. Patel, 2012-12-10 Most traditional power systems textbooks focus on high voltage transmission However the majority of power engineers work in urban factories buildings or industries where power comes from utility companies or is self generated Introduction to Electrical Power and Power Electronics is the first book of its kind to cover the entire scope of electrical power and power electronics systems in one volume with a focus on topics that are directly relevant in power engineers daily work Learn How Electrical Power Is Generated Distributed and Utilized Composed of 17 chapters the book is organized into two parts The first part introduces aspects of electrical power that most power engineers are involved in during their careers including the distribution of power to load equipment such as motors via step down transformers cables circuit breakers relays and fuses For engineers working with standalone power plants it also tackles generators The book discusses how to design and operate systems for economic use of power and covers the use of batteries in greater depth than typically found in traditional power system texts Understand How Power Electronics Work in Modern Systems The second part delves into power electronics switches as well as the DC DC converters AC DC AC converters and frequency converters used in variable frequency motor drives It also discusses quality of power issues in modern power systems with many large power electronics loads A chapter on power converter cooling presents important interdisciplinary design topics Draw on the Author s Extensive Industry and Teaching Experience This timely book draws on the author s 30 years of work experience at General Electric Lockheed Martin and Westinghouse Electric and 15 years of teaching electrical power at the U S Merchant Marine Academy Designed for a one semester or two quarter course in electrical power and power electronics it is also ideal for a refresher course or as a one stop reference for industry professionals

Coordinated Power Systems Protection, 1991 [Electrical Power Equipment Maintenance and Testing](#) Paul Gill, 2016-12-19 The second edition of a bestseller this definitive text covers all aspects of testing and maintenance of the equipment found in electrical power systems serving industrial commercial utility substations and generating plants It addresses practical aspects of routing testing and maintenance and presents both the methodologies and engineering basics needed to carry out these tasks It is an essential reference for engineers and technicians responsible for the operation maintenance and testing of power system equipment Comprehensive coverage includes dielectric theory dissolved gas analysis cable fault locating ground resistance measurements and power factor dissipation factor DC breaker and relay testing methods

Energy-Efficient Electrical Systems for Buildings Moncef Krarti, 2017-03-03 Energy Efficient Electrical Systems for Buildings offers a systematic and practical analysis and design approaches for electrical distribution and utilization systems in buildings In addition to meeting the minimal safety requirements set by the National Electrical Code NEC the design approach consider the life cycle cost analysis of designing energy efficient electrical distribution

systems as well as integrating renewable energy technologies into both residential and commercial buildings. The book first provides a general overview of basic power systems commonly available in buildings. Then detailed discussions of various components of typical building electrical distribution systems are outlined through several chapters including transformers, protection devices, conductors and conduits, power and lighting panels, and motor control centers. The book includes several illustrations and numerous examples, and analysis exercises are included along with detailed design examples.

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