

Obsolescent Circuit Breakers

F-Frame Thermal-Magnetic Circuit Breakers

Class 650

Thermal-magnetic molded case circuit breakers shown on page 11-5 are permanent trip UL Listed, CSA® Certified, IEC rated, and also meet the requirements of Federal Specification W-C-375B/GEN as indicated on Digest pages 7-4 through 7-7.

NOTE: Consider using PowerPact® circuit breakers for situations requiring circuit breaker accessories. See Digest Section 7 for more information.

Table 11.5: F-Frame—100 A, Thermal-Magnetic, Individually-Mounted, 480 Vac

			Extra-High Interrupting				
Ampere Rating	Fixed AC Magnetic Trip		2P		3P		Terminal Wire Range (AWG)
			480 Vac, 250 Vdc		480 Vac, 250 Vdc		
	Hold	Trip	Cat. No.	\$ Price	Cat. No.	\$ Price	
15 A	275 A	600 A	—	—	FCL34015		CU30FA4 (1) 14–10 Cu
20 A	275 A	600 A	—	—	FCL34020		
25 A	275 A	600 A	—	—	FCL34025		
30 A	275 A	600 A	—	—	FCL34030		
35 A	400 A	850 A	—	—	FCL34035	For pricing contact Schneider Electric	AL100FA4 (1) 14–3 Cu or (2) 12–1 Al
40 A	400 A	850 A	—	—	FCL34040		
45 A	400 A	850 A	—	—	FCL34045		
50 A	400 A	850 A	FCL24050		FCL34050		
60 A	800 A	1450 A	FCL24060		FCL34060		
70 A	800 A	1450 A	FCL24070		FCL34070		
80 A	800 A	1450 A	FCL24080		FCL34080		
90 A	900 A	1700 A	FCL24090		FCL34090		
100 A	900 A	1700 A	FCL24100		FCL34100		

For pricing contact your local Schneider Electric distributor.

Table 11.6: Interrupting Ratings

Voltage	FAL			FHL	FCL	FIL
	240 Vac	480 Vac	600 Vac			
240 Vac	10 kA	18 kA (1P), 25 kA (2P, 3P)	25 kA	25 kA (1P) 65 kA (2P, 3P)	100 kA	200 kA
480 Vac	—	18 kA	18 kA	25 kA (2P, 3P)	65 kA	200 kA
600 Vac	—	—	14 kA	18 kA (2P, 3P)	—	100 kA

Termination Option

Termination Letter

F = No Lugs
L = Lugs both ends
P with MT Suffix = Lugs ON end
P = Lugs OFF end

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

FAL36100

Termination Letter

Table 11.7: F-Frame—100 A, Thermal-Magnetic, I-Line® Construction, 480 Vac

Ampere Rating	Fixed AC Magnetic Trip		Extra-High Interrupting ♦				Terminal Wire Rang (AWG)
			2P▲		3P		
			480 Vac, 250 Vdc■		480 Vac, 250 Vdc♦		
	Hold	Trip	Cat. No.	\$ Price	Cat. No.	\$ Price	
15 A	275 A	600 A	—		FC34015		CU30FA4 (1) 14–10 Cu
20 A	275 A	600 A	—		FC34020		
25 A	275 A	600 A	—		FC34025		
30 A	275 A	600 A	—		FC34030		
35 A	400 A	850 A	—		FC34035	For pricing con Schneider Elec	AL100FA4 (1) 14–3 Cu or (1) 12–1 Al
40 A	400 A	850 A	—		FC34040		
45 A	400 A	850 A	—		FC34045		
50 A	400 A	850 A	FC24050()		FC34050		
60 A	800 A	1450 A	FC24060()		FC34060		
70 A	800 A	1450 A	FC24070()		FC34070		
80 A	800 A	1450 A	FC24080()		FC34080		
90 A	900 A	1700 A	FC24090()		FC34090		
100 A	900 A	1700 A	FC24100()		FC34100		

For pricing contact your local Schneider Electric distributor.

- ▲ 1P and 2P circuit breaker catalog numbers are completed by adding the required phase connection letters as a suffix. See Phase Option Table.
- FCL 2P circuit breakers are built using 3P module.
- ♦ FCL circuit breakers are not rated for 250 Vdc.

Table 11.8: Phase Options

Phase Option Letter	1P	2P	3P
A B C	FA14035A FA14035B FA14035C		
AB AC BC		FA24030AB FA24030AC FA24030BC	
ABC CBA			FA34030 FA34030CBA

Table 11.9: Interrupting Ratings

Voltage	FA			FH	FC	FI
	240 Vac	480 Vac	600 Vac			
240 Vac	10 kA	18 kA (1P), 25 kA (2P, 3P)	25 kA	25 kA (1P) 65 kA (2P, 3P)	100 kA	200 kA
277 Vac	—	18 kA	—	—	65 kA	—
480 Vac	—	18 kA	18 kA	25 kA (2P, 3P)	65 kA	200 kA
600 Vac	—	—	14 kA	18 kA (2P, 3P)	—	100 kA

Accessories Page 11-30
Optional Lugs Page 11-25
Dimensions Page 11-4
Enclosures: see Digest Section 7