

Series C Selection Data—F-Frame

Series C, F-Frame
Thermal-Magnetic 10–225 A
Electronic RMS 15–225 A



F-Frame Breaker

Table 27.4-55. Dimensions in Inches (mm)

Number of Poles	Width	Height	Depth
1	1.38 (34.8)	6.00 (152.4)	3.38 (85.7)
2	2.75 (69.9)	6.00 (152.4)	3.38 (85.7)
3	4.13 (104.8)	6.00 (152.4)	3.38 (85.7)
4	5.50 (139.7)	6.00 (152.4)	3.38 (85.7)

Table 27.4-56. Thermal-Magnetic Trip Ratings

Frame	Ratings
ED, EDH, EDC	100, 125, 150, 175, 200, 225
EHD, FDB, FD, HFD, FDC, HFDDC	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150
FD, HFD, FDC	175, 200, 225

Table 27.4-57. Digitrip 310+ Electronic Trip Units

Types	Frame	Ratings
FDE, HFDE, FDCE	225	100, 110, 125, 150, 160, 175, 200, 225
	160	60, 70, 80, 90, 100, 125, 150, 160
	80	15, 20, 30, 40, 50, 60, 70, 80

Table 27.4-58. UL 489 Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Trip Type ①	Interrupting Capacity (Symmetrical Amperes)					
			Volts AC (50/60 Hz)				Volts DC	
			240	277	480	600	125	250 ②③
EDB	2, 3	N.I.T.	22,000	—	—	—	10,000	—
EDS	2, 3	N.I.T.	42,000	—	—	—	10,000	—
ED	2, 3	N.I.T.	65,000	—	—	—	10,000	—
EDH	2, 3	N.I.T.	100,000	—	—	—	10,000	—
EDC ④	2, 3	N.I.T.	200,000	—	—	—	10,000	—
EHD	1	N.I.T.	—	14,000	—	—	10,000	—
	2, 3	N.I.T.	18,000	—	14,000	—	—	10,000
FDB	2, 3, 4	N.I.T.	18,000	—	14,000	14,000	—	10,000
FD	1	N.I.T.	—	35,000	—	—	10,000	—
FD	2, 3, 4	N.I.T.	65,000	—	35,000	—	—	10,000
FDE ⑤	2, 3, 4	N.I.T.	65,000	—	35,000	18,000	—	—
HFD	1	N.I.T.	—	65,000	—	—	10,000	—
HFD	2, 3, 4	N.I.T.	100,000	—	65,000	—	—	22,000
HFDE ⑤	2, 3, 4	N.I.T.	100,000	—	65,000	25,000	—	—
FDC ④	2, 3, 4	N.I.T.	200,000	—	100,000	35,000	—	22,000
FDCE ⑤	2, 3, 4	N.I.T.	—	—	—	25,000	—	—
HFDDC ⑥	3	N.I.T.	—	—	—	—	—	42,000 ⑦

① N.I.T. is non-interchangeable trip unit.

② Two-pole circuit breaker, or two poles of three-pole circuit breaker.

③ Time constant is 3 milliseconds minimum at 10 kA and 8 milliseconds minimum at 22 kA.

④ Current limiting.

⑤ Electronics available on three-pole only.

⑥ HFDDC is UL only and is not tested to other standards.

⑦ Interrupting rating is 35,000 A at 600 Vdc with three poles in series, for ungrounded systems only.

Table 27.4-59. Line and Load Terminals

Maximum Breaker Amperes	Terminal Body Material ⑧	Wire Type	AWG Wire Range	Metric Wire Range (mm ²)	Catalog Number Package of 3 Terminals
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Standard Pressure Type Terminals

20 (EHD)	Steel	Cu/Al	(1) #14–#10	2.5–4	3T20FB ⑨
100	Steel	Cu/Al	(1) #14–1/0	2.5–50	3T100FB
150	Aluminum	Cu/Al	(1) #4–4/0	25–95	3TA150FB
225	Aluminum	Cu/Al	(1) #4–4/0	25–95	3TA225FD

Optional Pressure Terminals

50	Aluminum	Cu/Al	(1) #14–#4	2.5–16	3TA50FB ⑨
100	Aluminum	Cu/Al	(1) #14–1/0	2.5–50	3TA100FD
150	Stainless Steel	Cu	(1) #4–4/0	25–95	3T150FB
225	Aluminum	Cu/Al	(1) #6–300 kcmil	16–150	3TA225FDK

⑧ UL listed for use with copper or aluminum conductors as noted.

⑨ Not for use with ED, EDH, EDC breakers.