

Typical F-Frame Breaker
F-Frame Breaker with Electronic Trip Unit



Contents

Description

	<i>Page</i>
Product Overview	V4-T2-116
Standards and Certifications	V4-T2-117
Quick Reference	V4-T2-118
G-Frame (15–100 Amperes)	V4-T2-121
F-Frame (10–225 Amperes)	
Catalog Number Selection	V4-T2-136
Product Selection	V4-T2-138
Accessories	V4-T2-149
Technical Data and Specifications	V4-T2-150
Dimensions and Weights	V4-T2-152
J-Frame (70–250 Amperes)	V4-T2-153
K-Frame (70–400 Amperes)	V4-T2-161
L-Frame (125–600 Amperes)	V4-T2-185
M-Frame (300–800 Amperes)	V4-T2-211
N-Frame (400–1200 Amperes)	V4-T2-222
R-Frame (800–2500 Amperes)	V4-T2-237
Motor Circuit Protectors (MCP)	V4-T2-256
Motor Protection Circuit Breakers (MPCB)	V4-T2-267
Type ELC Current Limiter Attachment (Size 0–4)	V4-T2-269
Current Limiting Circuit Breaker Module	V4-T2-270
Internal Accessories	V4-T2-273
External Accessories	V4-T2-306

F-Frame (10–225 Amperes)

Product Description

- All Eaton's F-Frame circuit breakers are HACR rated
- All circuit breakers 10 through 30 amperes are suitable for HID (high intensity discharge) use
- All F-Frame circuit breakers are suitable for reverse feed use

2.3

Molded Case Circuit Breakers

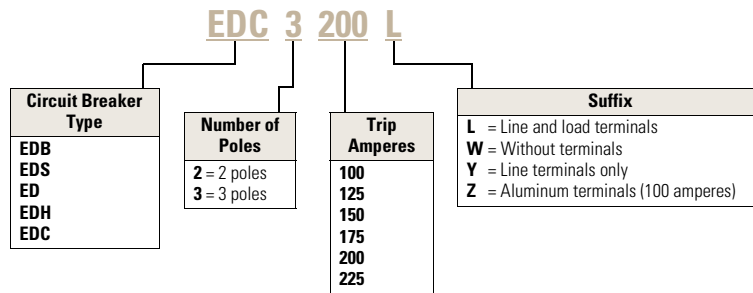
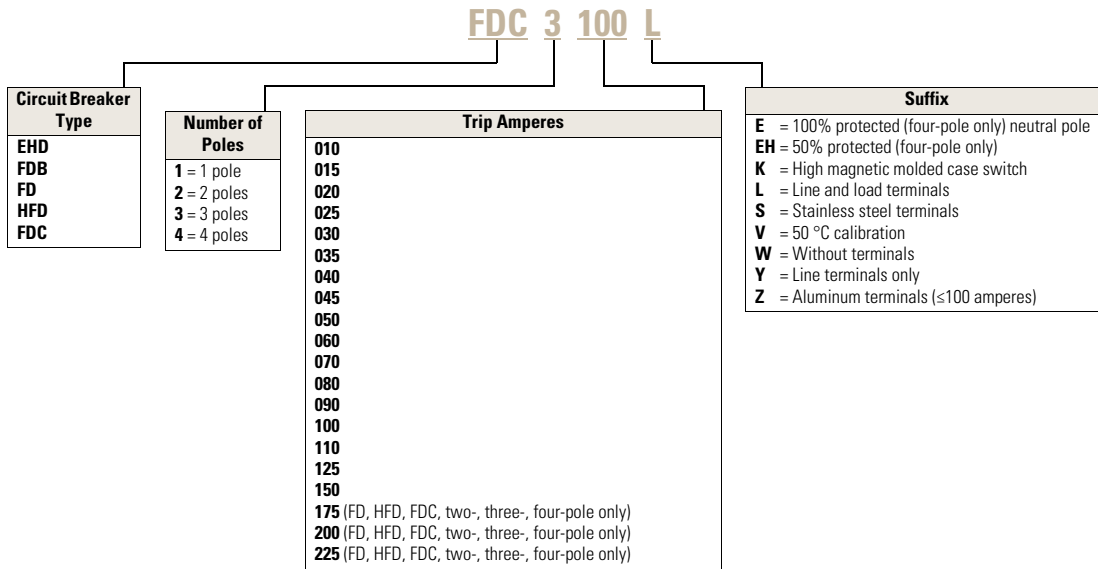
Series C

Catalog Number Selection

This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers or trip units.

2

FD-Frame Circuit Breakers with Thermal-Magnetic Trip Unit Technology



Types FDE, HFDE and FDCE 310+ Electronic Circuit Breakers with Non-Interchangeable Trip UnitsSee 310+ adjustability specifications on **Page V4-T2-151**.

Maximum Ampere Rating	Digitrip RMS 310+ Trip Unit Only		LSG Adjustable Short Time Pickup with I ² t Short Delay and Ground Fault Protection	LSIG Independently Adjustable Short Time Pickup and Ground Fault Protection	Neutral CT for LSG and LSIG Catalog Number
	Standard LS Adjustable Short Time Pickup with I ² t Short Delay Ramp Catalog Number	Optional LSI Independently Adjustable Short Time Pickup and Delay			
35 kAIC at 480 Vac / 18 kAIC at 600 Vac					
80	FDE308033	FDE308032	FDE308035	FDE308036	CTF080
160	FDE316033	FDE316032	FDE316035	FDE316036	CTF160
225	FDE322533	FDE322532	FDE322535	FDE322536	CTF225
65 kAIC at 480 Vac / 25 kAIC at 600 Vac					
80	HFDE308033	HFDE308032	HFDE308035	HFDE308036	CTF080
160	HFDE316033	HFDE316032	HFDE316035	HFDE316036	CTF160
225	HFDE322533	HFDE322532	HFDE322535	HFDE322536	CTF225
100 kAIC at 480 Vac / 25 kAIC at 600 Vac					
80	FDCE308033	FDCE308032	FDCE308035	FDCE308036	CTF080
160	FDCE316033	FDCE316032	FDCE316035	FDCE316036	CTF160
225	FDCE322533	FDCE322532	FDCE322535	FDCE322536	CTF225

Types FDE, HFDE, and FDCE 210+ Electronic Circuit Breakers with Non-Interchangeable Trip Units

Maximum Ampere Rating	Digitrip RMS 210+ Trip Unit Only	
	Standard LI Adjustable Instantaneous Catalog Number	Optional LSI Adjustable Short Time Pickup and Delay Catalog Number
35 kAIC at 480 Vac / 18 kAIC at 600 Vac		
100	FDE310021	FDE310022
150	FDE315021	①
225	FDE322521	FDE322522
65 kAIC at 480 Vac / 25 kAIC at 600 Vac		
100	HFDE310021	HFDE310022
150	HFDE315021	①
225	HFDE322521	HFDE322522
100 kAIC at 480 Vac / 25 kAIC at 600 Vac ②		
100	FDCE310021	FDCE310022
150	FDCE315021	①
225	FDCE322521	FDCE322522

210+ Trip Electronic Trip Units Amperage Settings

Circuit Breaker Type	Frame	Ratings
FDE, HFDE, FDCE	225	100, 110, 125, 150, 175, 200, 225
FDE, HFDE, FDCE	150	70, 80, 90, 100, 110, 125, 150
FDE, HFDE, FDCE	100	40, 50, 60, 70, 80, 90, 100

FDE 310+ Electronic Breaker with Zone Selective Interlocking

Ampere Rating	LSI w/ZSI Catalog Number	LSIG w/ZSI Catalog Number
35 kAIC at 480 Vac / 18 kAIC at 600 Vac		
80	FDE308032ZG	FDE308036ZG
160	FDE316032ZG	FDE316036ZG
225	FDE322532ZG	FDE322536ZG
65 kAIC at 480 Vac / 25 kAIC at 600 Vac		
80	HFDE308032ZG	HFDE308036ZG
160	HFDE316032ZG	HFDE316036ZG
225	HFDE322532ZG	HFDE322536ZG
100 kAIC at 480 Vac / 25 kAIC at 600 Vac		
80	FDCE308032ZG	FDCE308036ZG
160	FDCE316032ZG	FDCE316036ZG
225	FDCE322532ZG	FDCE322536ZG

Digitrip 310+ Electronic Trip Units Amperage Settings

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

Notes

① For 210+ trip unit, 150 A not available with LSI trip unit; entire range is covered by 100 A and 225 A frames.

② Contact the product line for availability.