

Certified Test Reports

Eaton breakers can be ordered with certified test reports at the time of order entry. Test report documents the thermal and magnetic or electronic tripping characteristics of the individual breaker. Breaker and test report must be ordered together. Add suffix 12 to breaker catalog number and enter separate line item on order for certified test report.

Standards and Certifications

Molded case circuit breakers are designed to conform with the following standards:

- Underwriters Laboratories Inc., Standard UL 489, molded case circuit breakers and circuit breaker enclosures
- National Electrical Manufacturers Association (NEMA) Standards Publication No. AB1-1993, molded case circuit breakers
- Australian Standard AS 2184, molded case circuit breakers
- British Standards Institution Standard BS 4752: Part 1, switchgear and control gear Part 1: circuit breakers
- Canadian Standards Association (CSA) Standard C22.2 No. 5, service entrance and branch circuit breakers
- International Electrotechnical Commission Recommendations IEC 60947-2, circuit breakers
- Japanese T-Mark Standard molded case circuit breakers
- South African Bureau of Standards, Standard SABS 156, Standard Specification for molded case circuit breakers
- Swiss Electro-Technical Association Standard SEV 157-1, safety regulations for circuit breakers
- Union Technique de l'Electricite Standard NF C 63-120, low voltage switchgear and control gear circuit breaker requirements
- Verband Deutscher Elektrotechniker (Association of German Electrical Engineers) Standard VDE 0660, low voltage switchgear and control gear, circuit breakers

Conformance with these standards satisfies most local and international codes, assuming user acceptability and simplified application.

Molded case circuit breakers equal or exceed Federal Specification Classification W-C-375b requirements for the particular class associated with the circuit breaker frame being considered.

Open breakers do not have service entrance ratings. Service entrance rating is part of the enclosure.



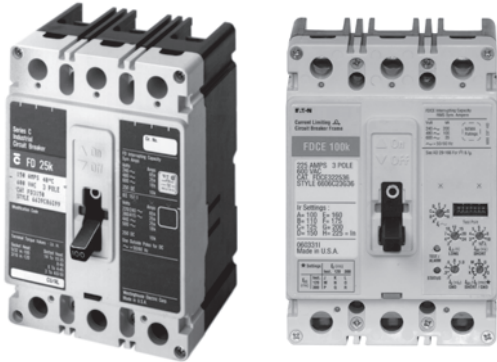
F-Frame

Circuit Breaker Type	Continuous Ampere Rating at 40 °C	No. of Poles	Volts		Type of Trip ①	Federal Specification W-C-375b	UL Listed Interrupting Ratings (rms Symmetrical Amperes)								Page Number
			AC	DC			AC (kA)				DC (kA) ②				
							120	120/240	240	277	480	600	125	250	
EDB	100–225	2, 3	240	125	N.I.T.U.	—	—	—	22	—	—	—	10	—	V4-T2-135
EDS	100–225	2, 3	240	125	N.I.T.U.	—	—	—	42	—	—	—	10	—	V4-T2-135
ED	15–225	2, 3	240	125	N.I.T.U.	12b	—	—	65	—	—	—	10	—	V4-T2-135
EDH	100–225	2, 3	240	125	N.I.T.U.	14b	—	—	100	—	—	—	10	—	V4-T2-135
EDC	100–225	2, 3	240	125	N.I.T.U.	1	—	—	200	—	—	—	10	—	V4-T2-135
EHD	15–100	1	277	125	N.I.T.U.	13a	—	—	—	14	—	—	10	—	V4-T2-135
EHD	15–100	2, 3	480	250	N.I.T.U.	13b	—	—	18	—	14	—	10	—	V4-T2-135
FDB	15–150	2, 3	600	250	N.I.T.U.	18a	—	—	18	—	14	14	—	10	V4-T2-135
FDB	15–150	4	600	250	N.I.T.U.	③	—	—	18	—	14	14	—	10	V4-T2-135
FD	15–150	1	277	125	N.I.T.U.	13a	—	—	—	35	—	—	10	—	V4-T2-135
FD	15–225	2, 3	600	250	N.I.T.U.	22a	—	—	65	—	35	18	—	10	V4-T2-135
FD	15–225	4	600	250	N.I.T.U.	③	—	—	65	—	35	18	—	10	V4-T2-135
FDE	15–225	3	600	—	N.I.T.U.	—	—	—	65	—	35	18	—	—	V4-T2-135
HFD	15–150	1	277	125	N.I.T.U.	13a	—	—	—	65	—	—	10	—	V4-T2-135
HFD	15–225	2,3	600	250	N.I.T.U.	22a	—	—	100	—	65	25	—	22	V4-T2-135
HFD	15–225	4	600	250	N.I.T.U.	③	—	—	100	—	65	25	—	22	V4-T2-135
HFDE	15–225	3	600	—	N.I.T.U.	—	—	—	100	—	65	25	—	—	V4-T2-135
FDC ④	15–225	2, 3	600	250	N.I.T.U.	24a	—	—	200	—	100	35	—	22	V4-T2-135
FDC ④	15–225	4	600	250	N.I.T.U.	③	—	—	200	—	100	35	—	22	V4-T2-135
FDCE ④⑤	15–225	3	600	—	N.I.T.U.	—	—	—	200	—	100	25	—	—	V4-T2-135

Notes

- ① N.I.T.U. is non-interchangeable trip unit and I.T.U. is interchangeable trip unit.
 ② Two-pole circuit breaker, or two poles of three-pole circuit breaker at 250 Vdc.
 ③ Not defined in W-C-375b.
 ④ Current limiting.
 ⑤ Check with Eaton for availability.

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



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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

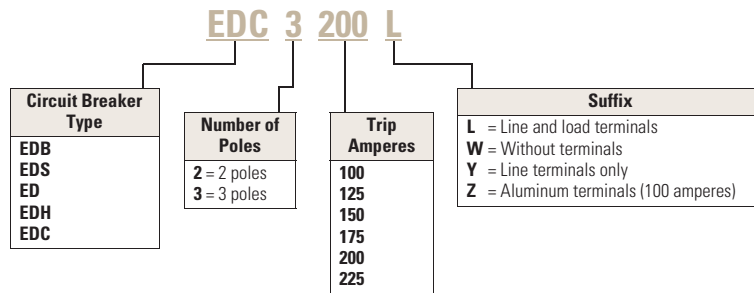
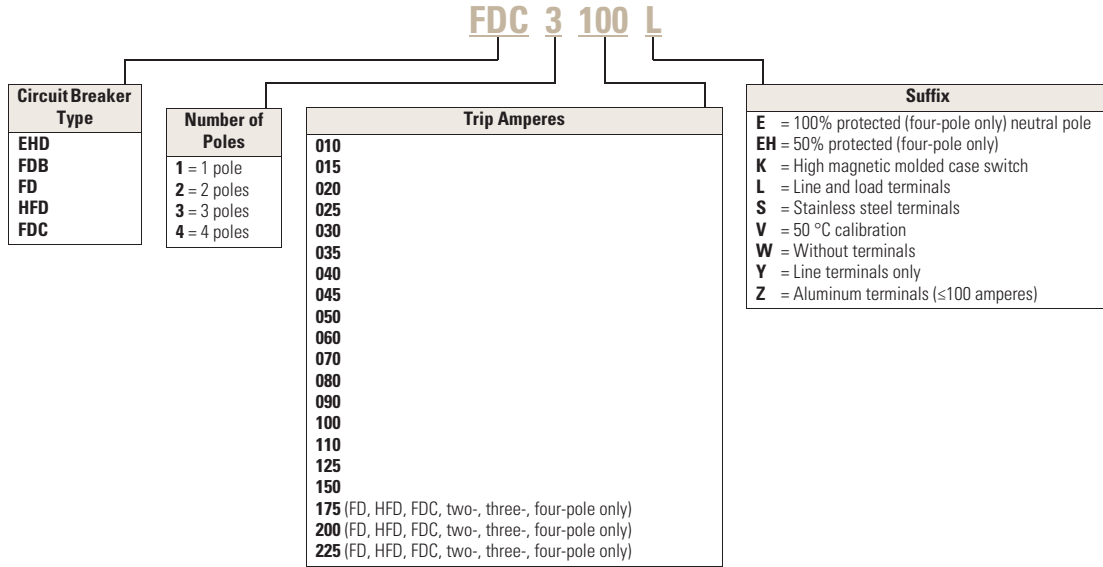
Series C

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



2.3

Molded Case Circuit Breakers

Series C

2

Type EDS Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units Suitable for Reverse Feed

Maximum Continuous Ampere Rating at 40 °C	240 Vac Maximum, 125 Vdc (Includes Terminals on Load End Only) 42 kAIC at 240 Vac	
	Two-Pole Catalog Number	Three-Pole Catalog Number
100	EDS2100	EDS3100
110	EDS2110	EDS3110
125	EDS2125	EDS3125
150	EDS2150	EDS3150
175	EDS2175	EDS3175
200	EDS2200	EDS3200
225	EDS2225	EDS3225

Type EHD Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units (Includes Terminals on Load End Only)

Maximum Continuous Ampere Rating at 40 °C	277 Vac Maximum, 125 Vdc 14 kAIC at 277 Vac Single-Pole	480 Vac Maximum, 250 Vdc 14 kAIC at 480 Vac Two-Pole	Three-Pole
	Catalog Number	Catalog Number	Catalog Number
10 ^①	EHD1010	EHD2010	EHD3010
15	EHD1015 ^②	EHD2015	EHD3015
20	EHD1020 ^②	EHD2020	EHD3020
25	EHD1025	EHD2025	EHD3025
30	EHD1030	EHD2030	EHD3030
35	EHD1035	EHD2035	EHD3035
40	EHD1040	EHD2040	EHD3040
45	EHD1045	EHD2045	EHD3045
50	EHD1050	EHD2050	EHD3050
60	EHD1060	EHD2060	EHD3060
70	EHD1070	EHD2070	EHD3070
80	EHD1080	EHD2080	EHD3080
90	EHD1090	EHD2090	EHD3090
100	EHD1100	EHD2100	EHD3100

Notes

- ① Not UL listed. 5 kAIC interrupting rating.
- ② UL listed for SWD applications, see NEC Article 240.83(d).