

Catalog Numbering System

Selection/Application

If used on 250A frame and above means non-interchangeable trip breaker with factory assembled frame and trip. Solid state trip and current limiting (S or C in first character) are non-interchangeable only, and the "X" is omitted.

Trip Unit Type

- — Omitted — Thermal-Magnetic
S — Sensitrip® Electronic Trip

Sentron Series Type/Interrupting Range

- — Omitted — Standard Rating
H — High IC Rating
HH — Extra High IC Rating
C — Highest IC Rating and Current Limiting

Frame Identifier

- E — Type ED M — Type MD
F — Type FD N — Type ND
J — Type JD P — Type PD
L — Type LD R — Type RD
LM — Type LMD

Maximum Voltage

- 2 — 240 Vac
4 — 480 Vac
6 — 600 Vac

Number of Poles

- 1
2
3
A — used to indicate advanced electronic trip unit with maintenance mode capability (always 3 poles)
B — used to indicate basic electronic trip unit (always 3 poles)

(Specific Application Type)

- B — Standard 40°C Breaker
M — Calibrated for 50°C Application
F — Frame Only
T — 40°C Trip Unit Only
W — 50°C Trip Unit Only
S — Molded Case Switch
L — Low Instantaneous Range ETI Breaker
A — Standard Range ETI Breaker
H — High Instantaneous Range ETI Breaker

Maximum Continuous Current Rating

- ED Frame — 015, 020, 025, 030, 035, 040, 045, 050, 060, 070, 080, 090, 100, 110, 125
FD Frame — 070, 080, 090, 100, 110, 125, 150, 175, 200, 225, 250
JD Frame — 200, 225, 250, 300, 350, 400
LD Frame — 250, 300, 350, 400, 450, 500, 600
LMD Frame — 500, 600, 700, 800
MD Frame — 500, 600, 700, 800
ND Frame — 900, 100 (1000A), 120 (1200A)
PD Frame — 120 (1200A), 140 (1400A), 160 (1600A)
RD Frame — 160 (1600A), 180 (1800A), 200 (2000A)

Suffix

- L — where applicable indicates a breaker shipped with line/loads lugs installed
A — used with a switch to show automatic self protection
Y — 400 Hertz
H — 100% rated
P — Load side lugs only
NAV — Navel Ratings

NOTE:

- — Position omitted if not used.

Ordering Instructions

- All ED Frame Sentron circuit breakers are supplied with load side lugs. If line side lugs are required, add "L" suffix to catalog number. Consult Siemens sales office for any additional charge
- 50°C Calibration, 400HZ - see page 17/120. All ED frame circuit breakers may be reverse connected

Type ED2^⑤

Blue Label

Continuous Current Rating @ 40°C	1-Pole		2-Pole		3-Pole
	120V AC	125V DC	240V AC	125V DC 250V DC	240V AC
	Catalog Number		Catalog Number		Catalog Number
15	ED21B015 ^④ ■		ED22B015		ED23B015
20	ED21B020 ^④ ■		ED22B020		ED23B020
25	ED21B025■		ED22B025■		ED23B025■
30	ED21B030■		ED22B030		ED23B030
35	ED21B035■		ED22B035■		ED23B035■
40	ED21B040■		ED22B040		ED23B040
45	ED21B045■		ED22B045■		ED23B045■
50	ED21B050■		ED22B050		ED23B050
60	ED21B060■		ED22B060		ED23B060
70	ED21B070■		ED22B070		ED23B070
80	ED21B080■		ED22B080■		ED23B080
90	ED21B090■		ED22B090■		ED23B090■
100	ED21B100■		ED22B100		ED23B100

Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.)
ED2, ED4, ED6, HED4, HHED6		
1	30	38
2	10	25
3	10	38
CED6		
2	5	20
3	5	30

Lugs

Ampere Rating	No. of Poles	Catalog Number	Wire Range
Aluminum Body Lugs			
All 15–25A	1, 2, 3	Line/Load SA1E025	#14–#10 Cu #12–#10 Al
All 30–100A	1, 2, 3	Line Side LN1E100	#10–1/0 Cu/Al
ED2, 4, 6, HED4 30–60A	1	Load Side LD1E060	#10–#4 Cu/Al
ED2, 4, 6, HED4 70–100A	1	Load Side LD1E100	#6–#1/0 Cu/Al
ED2, 4, 6, HED4, HHED6 30–100A	2, 3	Load Side LN1E100	#10–1/0 Cu/Al
All 110, 125A	2, 3	Line/Load TA1E6125	#3–3/0 Cu #1–2/0 Al
Copper Body Lugs			
All 30–125A	1, 2, 3	Line/Load TC1ED6150 ^③	#10–1/0 Cu only
Compression Lugs			
All ED, HED, HHED, CED		CCE125	2/0

Type ED4^⑤

Blue Label

Continuous Current Rating @ 40°C	1-Pole		2-Pole		3-Pole
	120V AC 277V AC	125V DC	480V AC	250V DC	480V AC
	Catalog Number		Catalog Number		Catalog Number
15	ED41B015 ^④		—		ED43B015
20	ED41B020 ^④		ED42B020		ED43B020
25	ED41B025		ED42B025		ED43B025
30	ED41B030		ED42B030		ED43B030
35	ED41B035■		ED42B035■		ED43B035
40	ED41B040		ED42B040		ED43B040
45	ED41B045■		ED42B045■		ED43B045
50	ED41B050		ED42B050		ED43B050
60	ED41B060		ED42B060		ED43B060
70	ED41B070		ED42B070		ED43B070
80	ED41B080■		ED42B080■		ED43B080
90	ED41B090■		ED42B090■		ED43B090
100	ED41B100		ED42B100		ED43B100
110	ED41B110		ED42B110■		ED43B110
125	—		ED42B125		ED43B125

Type ED6^⑤

Blue Label

Continuous Current Rating @ 40°C	1-Pole ^①	2-Pole		3-Pole	
	347V AC	600V AC	250V DC	600V AC	500V DC
	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
15	ED61B015	—	—	ED63D015L	—
20	ED61B020	ED62B020	—	ED63D020L	—
25	ED61B025	ED62B025■	—	ED63D025L	—
30	ED61B030	ED62B030	—	ED63D030L	—
35	ED61B035	—	—	ED63D035L	—
40	ED61B040	—	—	ED63D040L	—
45	ED61B045■	—	—	ED63D045L	—
50	ED61B050	—	—	ED63D050L	—
60	ED61B060	—	—	ED63D060L	—
70	ED61B070■	—	—	ED63B070	—
80	ED61B080	—	—	ED63B080	—
90	ED61B090	—	—	ED63B090	—
100	ED61B100■	—	—	ED63B100	—
110	—	—	—	ED63B110	—
125	—	—	—	ED63B125	—

Enclosures (Neutral Included)^⑥

Type	Catalog Number
1 (Surface)	E2N1S (15–100A)
1 (Flush)	E2N1F (15–100A)
3R	E2N3R (15–100A)
4–4X	ED6SS4 (15–125A)
7–9	EA (15–60A)
7–9	EB (70–100A)
12	E2N12 (15–100A)
1 (Surface)	CED6N1S ^②
1 (Flush)	CED6N1F ^②
3R	CED6N3R ^②
12	CED6N12 ^②

Note: ED frame circuit breakers qualified to UL 489 Supplement SB "Naval"— See page 17/120 for additional information

■ Built to order. Allow 2–3 weeks for delivery.
① CSA Certified only (Not UL)

② For CED types and all 110–125 ampere ED frames.

③ See Note: A, page 17/117.

④ SWD rated.

⑤ HACR rated.

⑥ Not for use with HHED6 breakers.

Modifications page 17/120
For accessories, please refer to
pages 17/81 and 17/124 to 17/129

Type HED4^⑤

Black Label

Continuous Current Rating @ 40°C	1-Pole		2-Pole		3-Pole
	277V AC	125V DC	480V AC	250V DC	480V AC
	Catalog Number		Catalog Number		Catalog Number
15	HED41B015 ^①		HED42B015		HED43B015
20	HED41B020 ^①		HED42B020		HED43B020
25	HED41B025		HED42B025■		HED43B025
30	HED41B030		HED42B030		HED43B030
35	HED41B035■		HED42B035■		HED43B035
40	HED41B040		HED42B040		HED43B040
45	HED41B045■		HED42B045■		HED43B045
50	HED41B050■		HED42B050		HED43B050
60	HED41B060■		HED42B060■		HED43B060
70	HED41B070■		HED42B070■		HED43B070
80	HED41B080■		HED42B080■		HED43B080
90	HED41B090■		HED42B090■		HED43B090
100	HED41B100■		HED42B100■		HED43B100
110	—		HED42B110■		HED43B110
125	—		HED42B125■		HED43B125

FIGURE 1 - ED, HED, HHED

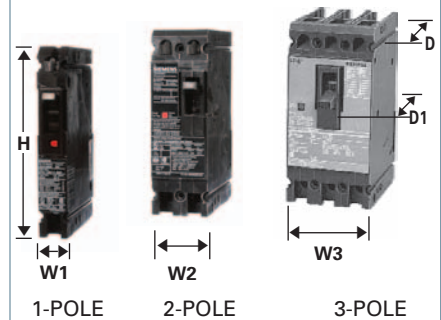
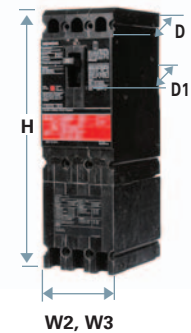


FIGURE 2 - CED (3-Pole shown)



Dimensions (in inches)

Breaker Type	W1	W2	W3	H	D	D1
Figure 1 ED2, ED4, ED6, HED4, ED6 ETI ^③	1	2	3	6.35	3.92	4.56
Figure 1 HHED6	—	2	3	6.53	3.92	4.56
Figure 2 CED6, CED6 ETI ^③	—	2	3	9.58	3.92	4.56

Fuseless Current Limiting

Type HHED6^⑤

Black Label

Type CED6^⑤

Red Label

Continuous Current Rating @ 40°C	3-Pole	2-Pole	3-Pole
	600V AC	600V AC, 250V DC	600V AC, 500V DC ^②
	Catalog Number ^④	Catalog Number	Catalog Number
15	HHED63B015A	CED62B015	CED63B015
20	HHED63B020	CED62B020■	CED63B020
25	HHED63B025	—	—
30	HHED63B030	CED62B030■	CED63B030
35	HHED63B035	—	—
40	HHED63B040	—	CED63B040
45	HHED63B045	—	—
50	HHED63B050	—	CED63B050
60	—	CED62B060■	CED63B060
70	—	CED62B070■	CED63B070
80	—	CED62B080■	CED63B080
90	—	CED62B090■	CED63B090
100	—	CED62B100■	CED63B100
110	—	—	CED63B110■
125	—	CED62B125■	CED63B125

Interrupting Ratings

Breaker Type	UL 489 AIR (File #E10848)										IEC 947-2					
	RMS Symmetrical Amperes (KA)										Volts AC (50/60Hz)					
	Volts AC					Volts DC					220/240		380/415		500	
	120	240	277	347	480	600	125	250	500 ^②	600	Icu	Ics	Icu	Ics	Icu	Ics
ED2 (1-P)	10	—	—	—	—	—	5	—	—	—	—	—	—	—	—	—
ED2 (2, 3-P)	—	10	—	—	—	—	—	5 (2-P)	—	—	—	—	—	—	—	—
ED4 (1-P)	65	—	22	—	—	—	30	—	—	—	—	—	—	—	—	—
ED4 (2, 3-P)	—	65	—	—	18	—	—	30 (2-P)	—	—	—	—	—	—	—	—
ED6 (1P)	—	—	—	30 ^④	—	—	—	30	—	—	—	—	—	—	—	—
ED6 (2, 3-P)	—	65	—	—	25	18	—	—	18 (3-P)	—	65	17	35	9	18	5
ED6 (3-P)	—	—	—	—	—	—	—	—	—	10 ^⑦	—	—	—	—	—	—
HED4 (1-P) (15-30A)	100	—	65	—	—	—	30	—	—	—	—	—	—	—	—	—
HED4 (1-P) (35-100A)	100	—	25	—	—	—	30	—	—	—	—	—	—	—	—	—
HED4 (2, 3-P)	—	100	—	—	42	—	—	30 (2-P)	—	—	—	—	—	—	—	—
HHED6 (2, 3-P)	—	100	—	—	65	18 ^⑥	—	—	—	—	—	—	—	—	—	—
CED6 (2, 3-P)	—	200	—	—	200	100	—	50 (2-P)	30 (3-P)	—	—	—	—	—	—	—

■ Built to order. Allow 2-3 weeks for delivery.

①SWD rated.

②When the power is connected in a "zig-zag" through the breaker, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS system.

③ ED6-ETI, CED6-ETI, see page 7-140 for ordering information.

④ Single Pole 15-30A 30KA @ 347V non-UL.
35-100A 18KA @ 347V non-UL.

⑤ HACR rated.

⑥ HHED63B015A is rated 18KAIC at 600/347V.

⑦ 600VDC only applies to ED63D___ breakers