

Molded Case Circuit Breakers

ED 125A Frame Sentron Series

Selection/Dimensions

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, and breaker will be supplied with line lugs installed at no charge.
- 50°C Calibration, 400HZ - contact sales office. All ED frame circuit breakers may be reverse connected.

Type ED2[®]

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	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
15	ED21B015 [®] ■		ED22B015		ED23B015	
20	ED21B020 [®] ■		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

Type ED4[®]

Blue Label

Continuous Current Rating @ 40°C	1-Pole		2-Pole		3-Pole	
	120V AC	125V DC	480V AC, 250V DC		480V AC	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
15	ED41B015 [®] ■		ED42B015		ED43B015	
20	ED41B020 [®] ■		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	—		ED42B110■		ED43B110	
125	—		ED42B125		ED43B125	

Type ED6[®]

Blue Label

Continuous Current Rating @ 40°C	1-Pole [®]		2-Pole		3-Pole	
	347V AC		600V AC, 250V DC		600V AC, 500V DC	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
15	ED61B015		ED62B015		ED63B015	
20	ED61B020		ED62B020		ED63B020	
25	ED61B025		ED62B025■		ED63B025	
30	ED61B030		ED62B030		ED63B030	
35	ED61B035		ED62B035■		ED63B035	
40	ED61B040		ED62B040		ED63B040	
45	ED61B045■		ED62B045■		ED63B045	
50	ED61B050		ED62B050		ED63B050	
60	ED61B060		ED62B060■		ED63B060	
70	ED61B070■		ED62B070■		ED63B070	
80	ED61B080		ED62B080■		ED63B080	
90	ED61B090		ED62B090■		ED63B090	
100	ED61B100■		ED62B100■		ED63B100	
110	—		—		ED63B110	
125	—		—		ED63B125	

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, CED6 30-60A	1	Load Side LD1E060	#10-#4 Cu/Al
ED2, 4, CED6 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 [®]	#10-1/0 Cu only
Compression Lugs			
All ED, HHED, CED		CCE125	2/0

Enclosures (Neutral Included)

Type	Catalog Number	List Price \$
1 (Surface)	E2N1S(15-100A)	
1 (Flush)	E2N1F(15-100A)	
3R	E2N3R(15-100A)	
4-4X	ED6SS4(15-100A)	
7-9	EA(15-60A)	
7-9	EB(70-100A)	
12	E2N12(15-100A)	
1 (Surface)	CED6N1S [®]	
1 (Flush)	CED6N1F [®]	
3R	CED6N3R [®]	
12	CED6N12 [®]	

Modifications page 11/65
Accessories pages 11/20 and 11/67 to 11/72

Note: ED frame circuit breakers qualified to UL 489 Supplement SB "Naval"

® CSA Certified only (Not UL)

® See Note: A, page 11/62.

® For CED types and all 110-125 ampere ED frames.

® SWD rated.

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

® HACR rated.

Molded Case Circuit Breakers

ED 125A Frame Sentron Series

Selection

Type HED4[Ⓞ]

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	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
15	HED41B015 [Ⓞ]		HED42B015		HED43B015	
20	HED41B020 [Ⓞ]		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

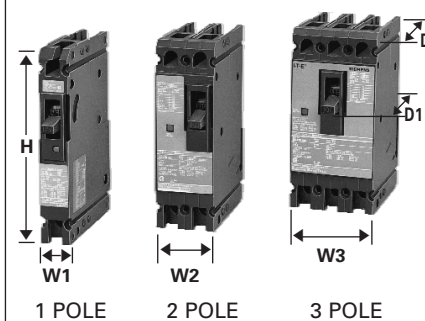
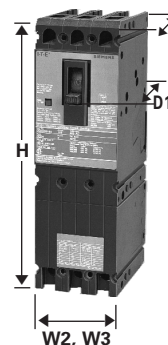


FIGURE 2 - CED (3 Pole shown)



Type HHED6[Ⓞ]

Black Label

Fuseless Current Limiting

Type CED6

Red Label

Continuous Current Rating @ 40°C	2-Pole		3-Pole		2-Pole		3-Pole	
	600V AC		600V AC		600V AC, 250V DC		600V AC, 500V DC [Ⓜ]	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
15	HHED62B015		HHED63B015		CED62B015		CED63B015	
20	HHED62B020		HHED63B020		CED62B020		CED63B020	
25	HHED62B025		HHED63B025		—		—	
30	HHED62B030		HHED63B030		CED62B030		CED63B030	
35	HHED62B035		HHED63B035		—		—	
40	HHED62B040		HHED63B040		CED62B040		CED63B040	
45	HHED62B045		HHED63B045		—		—	
50	HHED62B050		HHED63B050		CED62B050		CED63B050	
60	HHED62B060		HHED63B060		CED62B060		CED63B060	
70	HHED62B070		HHED63B070		CED62B070		CED63B070	
80	HHED62B080		HHED63B080		CED62B080		CED63B080	
90	HHED62B090		HHED63B090		CED62B090		CED63B090	
100	HHED62B100		HHED63B100		CED62B100		CED63B100	
110	HHED62B110		HHED63B110		—		CED63B110	
125	HHED62B125		HHED63B125		CED62B125		CED63B125	

Dimensions (in inches)

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

Interrupting Ratings

Breaker Type	UL 489 AIR (File #E10848)									IEC 947-2						
	RMS Symmetrical Amperes (KA)									Volts AC (50/60Hz)						
	Volts AC									220/240			380/415		500	
	120	240	277	347	480	600	125	250	500 [Ⓞ]	lcu	lcs	lcu	lcs	lcu	lcs	
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 [Ⓞ]	—	—	—	—	—	—	—	—	—	—	—	
ED6 (2, 3-P)	—	65	—	—	25	18	—	30 (2-P)	18 (3-P)	65	17	35	9	18	5	
HED4 (1-P)	100	—	65	—	—	—	30	—	—	—	—	—	—	—	—	
HED4 (1-P)	100	—	25	—	—	—	30	—	—	—	—	—	—	—	—	
HED4 (2, 3-P) [Ⓞ]	—	100	—	—	42	—	—	30 (2-P)	—	—	—	—	—	—	—	
HHED6 (2, 3-P) [Ⓞ]	—	100	—	—	65	18	—	—	—	—	—	—	—	—	—	
CED6 (2, 3-P)	—	200	—	—	200	100	—	30 (2-P)	50 (3-P)	—	—	—	—	—	—	

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

Ⓞ SWD rated.

Ⓜ When wired as shown on page 11/3, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems.

Ⓞ HED4 and HHED6 type circuit breakers meet the UL criteria for "current limiting" at 240V AC.

Ⓞ ED6-ETI, CED6-ETI, see page 11/50 for ordering information.

Ⓞ Single Pole 15-30A 30KA @ 347V
35-100A 18KA @ 347V

Ⓞ HACR rated.

Molded Case Circuit Breakers

Internal Accessories

Selection

Accessories for:

ED 125A Frame



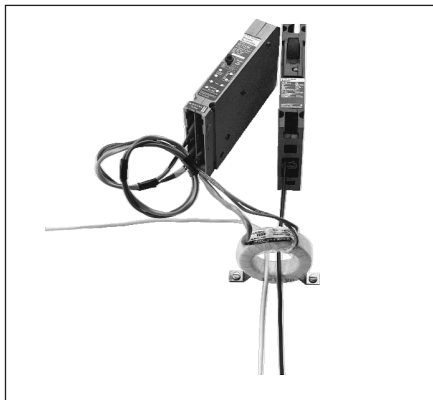
Combinations

Available only when ordered together. Only one module can be added to a breaker. Additional accessories, which always attach to the left pole, cannot be added to the combination later. E frame accessories add one inch pole space to width of breaker.

Equipment Ground Sensing

A field addable kit containing 30mA or 5 mA ground fault accessory module, current transformer with 24 inch leads, and current transformer mounting equipment. Current transformer to mount in gutter of lighting panel or any control panel. Accessory module operates from separate 120V control power source.

Both 30MA and 5MA devices are equipment protection devices only. Do not use for personnel protection.



Shunt Trip Combinations

Control Voltage		1 Shunt Trip	1 Shunt Trip and 1 Auxiliary Switch	1 Shunt Trip and 1 Alarm Switch	1 Shunt Trip and 1 Alarm Switch and 1 Auxiliary Switch	1 Shunt Trip and 2 Auxiliary Switches
AC	DC	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
24		S17ED60	—	—	—	—
48		S18ED60	—	—	—	—
120		S01ED60	S01ED62A	S01ED62AB	S01ED62B	S01ED62AA
208		—	S02ED62A▲	S02ED62AB▲	S02ED62B▲	S02ED62AA▲
240		S03ED60	S03ED62A	S03ED62AB	S03ED62B▲	S03ED62AA▲
277		S15ED60▲	S15ED64A▲	S15ED64AB▲	S15ED64B▲	—
480		S04ED60	S04ED64A▲	S04ED64AB▲	S04ED64B▲	—
	12	S16ED60▲	S16ED62A▲	—	—	—
	24	S07ED60	S07ED62A	S07ED62AB▲	S07ED62B▲	S07ED62AA▲
	48	S09ED60▲	S09ED62A▲	S09ED62AB▲	S09ED62B▲	S09ED62AA▲
	125	S11ED60▲	S11ED62A▲	S11ED62AB▲	S11ED62B▲	S11ED62AA▲
	250	S13ED60▲	S13ED62A▲	S13ED62AB▲	S13ED62B▲	S13ED62AA▲
List Price \$						

Undervoltage Trip Combinations

Control Voltage		1 Undervoltage Trip	1 Undervoltage Trip and 1 Auxiliary Switch	1 Undervoltage Trip and 1 Alarm Switch	1 Undervoltage Trip and 1 Alarm Switch	1 Undervoltage Trip and 2 Auxiliary Switches
AC	DC	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
120		U01ED60	U01ED62A	U01ED62AB▲	U01ED62B▲	U01ED62AA▲
208		U02ED60▲	U02ED62A▲	U02ED62AB▲	U02ED62B▲	U02ED62AA▲
240		U03ED60	U03ED62A▲	U03ED62AB▲	U03ED62B▲	U03ED62AA▲
277		U16ED60▲	U16ED64A▲	U16ED64AB▲	U16ED64B▲	—
480		U06ED60▲	U06ED64A▲	U06ED64AB▲	U06ED64B▲	—
600		U08ED60▲	—	—	—	—
	24	U13ED60	U13ED62A▲	U13ED62AB▲	U13ED62B▲	U13ED62AA▲
	48	U14ED60▲	U14ED62A▲	U14ED62AB▲	U14ED62B▲	U14ED62AA▲
	125	U10ED60▲	U10ED62A▲	U10ED62AB▲	U10ED62B▲	U10ED62AA▲
	250	U12ED60▲	U12ED62A▲	—	—	U12ED62AA▲
List Price \$						

Auxiliary Switch Combinations

Maximum Voltage		1 Auxiliary Switch	1 Alarm Switch and 1 Auxiliary Switch	2 Auxiliary Switches	1 Alarm Switch and 2 Auxiliary Switches
AC	DC	Catalog Number	Catalog Number	Catalog Number	Catalog Number
240	250	A01ED62	A01ED62B	A02ED62	A02ED62B
480		A01ED64	A01ED64B	—	—
List Price \$					

Maximum Voltage		1 Auxiliary Switch	List Price \$	Gold Plated Contacts—for PLC use
AC	DC	Catalog Number	List Price \$	
	12	A01EDLV		

Alarm Switch Only

Maximum Voltage		1 Alarm Switch	List Price \$
AC	DC	Catalog Number	List Price \$
240	250	B00ED62	
480		B00ED64	

Ground Fault Sensing Relay Kit — Equipment Protection Only

For Use With Breaker Frame	Number of Poles	Description	Catalog Number		List Price \$
			30mA	5mA	
ED2, ED4, ED6, HED4, HED6, HHED6	1, 2, 3	Basic Kit	GF01ED60	GF01ED65	
		Basic Kit with Normally Open Bell Alarm	GF01ED60B0	GF01ED65B0▲	
		Basic Kit with Normally Closed Bell Alarm	GF01ED60BC	GF01ED65BC▲	

▲ Built to order. Allow 6–8 weeks for delivery.