

# Molded Case Circuit Breakers

ED 125A Frame Sentron Series

Selection

## 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 7-91. All ED frame circuit breakers may be reverse connected

## Type ED2<sup>⑤</sup>

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 <sup>④</sup> ■		ED22B015		ED23B015
20	ED21B020 <sup>④</sup> ■		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.)
<b>ED2, ED4, ED6, HED4, HHED6</b>		
1	30	38
2	10	25
3	10	38
<b>CED6</b>		
2	5	20
3	5	30

## Lugs

Ampere Rating	No. of Poles	Catalog Number	Wire Range
<b>Aluminum Body Lugs</b>			
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, HED4, HHED6 30–100A	2, 3	Load Side LN1E100	#10–1/0 Cu/Al
ED6 20–50A	2, 3	Line Side LN1E100	#10–1/0 Cu/Al
All 110, 125A	2, 3	Line/Load TA1E6125	#3–3/0 Cu #1–2/0 Al
<b>Copper Body Lugs</b>			
All 30–125A	1, 2, 3	Line/Load TC1ED6150 <sup>③</sup>	#10–1/0 Cu only
<b>Compression Lugs</b>			
All ED, HHED, CED		CCE125	2/0

## Type ED4<sup>⑤</sup>

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		Catalog Number		Catalog Number
15	ED41B015 <sup>④</sup>		—		ED43B015
20	ED41B020 <sup>④</sup>		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<sup>⑤</sup>

Blue Label

Continuous Current Rating @ 40°C	1-Pole <sup>①</sup>		2-Pole		3-Pole		3-Pole
	347V AC		600V AC	250V DC	600V AC	500V DC	600V DC
	Catalog Number		Catalog Number		Catalog Number		Catalog Number
15	ED61B015	—	—	—	—	—	ED63D015L
20	ED61B020	ED62B020	—	—	ED63B020	—	ED63D020L
25	ED61B025	ED62B025■	—	—	ED63B025	—	ED63D025L
30	ED61B030	ED62B030	—	—	ED63B030	—	ED63D030L
35	ED61B035	ED62B035■	—	—	ED63B035	—	ED63D035L
40	ED61B040	ED62B040■	—	—	ED63B040	—	ED63D040L
45	ED61B045■	ED62B045■	—	—	ED63B045	—	ED63D045L
50	ED61B050	ED62B050■	—	—	ED63B050	—	ED63D050L
60	ED61B060	—	—	—	ED63B060	—	ED63D060L
70	ED61B070■	—	—	—	ED63B070	—	—
80	ED61B080	—	—	—	ED63B080	—	—
90	ED61B090	—	—	—	ED63B090	—	—
100	ED61B100■	—	—	—	ED63B100	—	—
110	—	—	—	—	ED63B110	—	—
125	—	—	—	—	ED63B125	—	—

## Enclosures (Neutral Included)<sup>⑤</sup>

Type	Catalog Number
1 (Surface)	E2N1S (15–100A)
1 (Flush)	E2N1F (15–100A)
3R	E2N3R (15–100A)
4–4X	ED6SS4 (15–100A)
4–4X	ED6SA4 (15–100A)
4–4X (316SS)	ED6S4316 (15–100A)
7–9	EA (15–60A)
7–9	EB (70–100A)
12	E2N12 (15–100A)
1 (Surface)	CED6N1S <sup>②</sup>
1 (Flush)	CED6N1F <sup>②</sup>
3R	CED6N3R <sup>②</sup>
12	CED6N12 <sup>②</sup>

Note: ED frame circuit breakers qualified to UL 489 Supplement SB "Naval"— See page 7-91 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 7-88.

④ SWD rated.

⑤ HACR rated.

⑥ Not for use with HHED6 breakers.

Modifications page 7-91  
Enclosures Section 6  
Accessories pages 7-47 and 7-95 to 7-100

# Lug information

## Optional Mechanical Lugs

Selection

For Use With Type	Circuit Breaker Ampere Rating	Cables Per Lug	Lug Material	Lug Wire Range	Qty Per Catalog No	Catalog Number
QR2, QR2H, HQR2, HQR2H	100-250	1	Cu	#3 - 300 Kcmil Cu ONLY)	3	3TC1QR2520 (3 lugs per kit)
ED, HED 1, 2 & 3-pole	1, 2 & 3-pole 30-125	1	Cu	#10-#1/0 (Cu)	1	TC1ED6150
HFD6, HHFD6, CFD6, F(X)D6-A	70-250	1	Cu	#6 AWG-350 kcmil (Cu)	1	TC1FD350
J(X)D2(A), J(X)D6(A), HJD6(A), HHJD6, SHJD6(A), L(X)D6(A), HHL6, SCD6, HLD6(A), SHLD6(A), CJD6, CLD6, SCJD6, SCLD6	200-600	1 1-2	Cu	3/0-600 kcmil (Cu) 3/0-500 kcmil (Cu)	1 1	TC1J6600 <sup>①</sup> TC2J6500 <sup>①</sup>
	250-600	1 1	Al	500-750 kcmil (Al) 500-600 kcmil (Cu)	1	TA1L6750
SMD6, M(X)D6, HM(X)D6, HMD6,	500-600	1-2	Cu	#1 AWG-500 kcmil (Cu)	1	TC2K500
CMD6, SCMD6, SND6, N(X)D6, HN(X)D6,		1-3	Cu	#1 AWG-350 kcmil (Cu)	1	TC3K350
SHND6, CND6, SCND6	700-800	1-2	Al	500-750 kcmil (Cu) 500-750 kcmil (Al)	2	2TA2N8750
					3	3TA2N8750
	800-1200	1-3	Al	500-750 kcmil (Cu) 500-750 kcmil (Al)	2	2TA3N8750
					3	3TA3N8750
R(X)D6, HR(X)D6	1600-2000	1-5	Cu	300-600 kcmil (Cu)	1	TC5R600
P(X)D6, HP(X)D6, CPD6, SPD6, SHPD6	1200-1600	1-4	Al	600-750 kcmil (Cu/Al)	1	TA4P750▲

## Compression Lugs

For Circuit Breaker Types	Ampere Rating	Poles	Lugs Per Kit	Lug Wire Size	Catalog Number
Lugs (contains indicated number of lugs and necessary hardware per kit)					
ED2, ED4, ED6, HED4, HHED6, CED6	15-125	1, 2, 3	1	#2/0 AWG Cu/Al	CCE125
QR2, QR2H, HQR2, HQR2H	100-250	2-3	1	#6 - 350kcmil Al/Cu	CCQ250
F(X)D6-A, HF(X)D6, HHF(X)D6, CFD6	125-250	2, 3	1	350 kcmil	CCF250
JXD2-A, J(X)D6-A, HJ(X)D6-A, HHJ(X)D6-A, CJD6, SJD6-A, SHJD6-A, SCJD6, L(X)D6-A, HL(X)D6-A, CLD6, SLD6-A, SHLD6-A, SCLD6	200-600	2, 3	1	500 kcmil	CCL600
Kits (contain lugs and hardware for complete line or load end of 2 or 3-pole breaker)					
M(X)D6, HM(X)D6, CMD6, SMD6, SHMD6, SCMD6	500-800		2	500 kcmil	CCM800K2
			3		CCM800K3
N(X)D6, HN(X)D6, CND6, SND6, SHND6, SCND6	900-1200		2	500 kcmil	CCN1200K2
			3		CCN1200K3

## Distribution Lugs<sup>②</sup>

For Circuit Breaker Types	Ampere Rating	Poles	Lugs Per kit	Wires Per Lug	Lug Wire Size	Catalog Number
NGG, HGG, LGG	15-125	1,2,3	1	6	#6-#4 AL #14-#4 Cu	TA6GG04
NEG, HEG	15-125	1,2,3	3	3	#14-#2 AWG Cu	3TA3EG02
NEG, HEG	15-125	1,2,3	3	6	#14-#6 AWG Cu	3TA6EG06
ED2, ED4, ED6, HED4, HHED6, CED6	15-125	1,2,3	1	6	#14-#4 AWG Cu #6-#4 AWG Al	TA6ED06
F(X)D6-A, HF(X)D6, HHF(X)D6, CFD6	70-250	2,3	1	6	#14-#4 AWG Cu #6-#4 AWG Al	TA6FD04
JXD2-A, J(X)D6-A, HJ(X)D6-A, HHJ(X)D6-A, CJD6-A, SJD6, SHJD6-A, SCJD6, L(X)D6-A, HL(X)D6-A, CLD6-A, SLD6-A, SHLD6-A, SCLD6	200-600	2,3	1	6	#14-2/0 AWG Cu #6-2/0 AWG Al	TA6JD20

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

① Used for 100% rated JD/LD frame circuit breakers.

② Special purpose wire connectors, not for general use.