

## Speed-D SB/SF (UL Listed) Class 2710 / Refer to Catalog 2700CT1101

# Speed-D<sup>™</sup> Switchboards





EUSERC UCT Fusible Multiple Mains

# Speed-D SB/SF Switchboards (UL Listed)

- UL Listed
- California Energy Commission (CEC) Title 24 compliant configurations available for California installations
- Hot sequence utility compartment per EUSERC requirements
- Two types:
- Utility-Service disconnect-distribution
- Utility-Up to six service disconnects
- Single service disconnect, either circuit breaker or fusible rated 400, 600, or 800 A with either type of distribution interiors, NQ up to 240 Vac, I-Line™ through 480 Vac
- Six service disconnects, group-mounted fusible, QMB/QMJ, 30–400 A; utility compartment—400, 600, and 800 A
- Meter doors can be 15 inches high with one meter socket and test block, or 30 inches high with two meter sockets and test block
- Meter sockets can be 6-, 8-, 13-, or 15-jaw meter sockets with test block, based on application
- Solar ready configurations are now available, using a back-fed circuit breaker on the I-Line stack
- Accessories include:
  - Underground pull sections with and without lug landing
  - Loadside wireway
  - Bus links for donut-type current transformers
  - Double padlock hasp attachments
  - Plug-on distribution panel
  - Subfeed circuit breakers
- Full height add-on I-Line distribution section
- Stand-alone I-Line distribution section

### Application

Suitable for use as service entrance equipment on ac systems. Sections contain metering compartment, barriers, main disconnects, distribution panel, neutral bus, and grounding provisions.

#### Metering

C/T compartment with two 15-inch blank meter doors. (Order doors with meter socket from Table 11.10 Meter Door Selection, page 11-13.) Incoming cable lugs are for top feed with one twin conductor 2 AWG-600 kcmil lug per phase and neutral, suitable for aluminum or copper cables. Optional single conductor lug is available. Refer to Table 11.11 Accessories, page 11-13.

#### Mains

Main breaker can be LH, MJ, PowerPact L, or PowerPact P. Standard and advanced electronic trip units available for PowerPact breakers. Multiple main devices use plug-on fusible switches. Main breakers with Energy or Power trip units comply with CEC Title 24 metering requirements.

#### Branches

NQ distribution bus is rated 400 A and provides mounting space for QO™/QOB Type (150 A maximum) circuit breakers. Panel provides space for mounting 42 single pole circuit breakers. One or two individually mounted 225 A maximum circuit breakers can be added with bus connectors. (Order subfeed circuit breakers from Table 11.12 Subfeed Circuit Breakers (Series E4), page 11-14.)

I-Line<sup>™</sup> distribution bus is rated 400, 600, or 800 A and will accept 27 inches of I-Line circuit breakers on the left side with a maximum frame size of "J". The right side will accept either a QO plug-on distribution panel (240 V only) or LA or LH I-Line circuit breaker, which allows for a back-fed solar power source.

#### Enclosure

Totally enclosed front accessible with ANSI 49 gray baked enamel finish. Dimensions are 90 in. (H) x 36 in. (W) x 14 in. (D) for indoor and 90 in. (H) x 36 in. (W) x 24.5 in. (D) for outdoor enclosures.

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# EUSERC Utility Metering, Main Disconnects and Distribution Panel (UL Listed)

Table 11.6: Single Main Circuit Breaker with Distribution (Series E4)

	Service	Mains	Main Breaker	SCCR	SCCR	Distribution	Circuit Breaker Catalog No.		
System	Voltage	Ratings (A)	Trip Unit	240 V Max.	480 V Max.	Interior	Indoor	Outdoor	
			Theorem	65		NQ	SB124QS	SB124QR	
			Thermal Magnetic			I-Line	SB124IS	SB124IR	
			wagnetic			None	SB124WS	SB124WR	
						NQ	SB124QSJS	SB124QRJS	
		400	LSI Standard Electronic			I-Line	SB124ISJS	SB124IRJS	
1Ø3W	120/240		Electronic	100	_	None	SB124WSJS	SB124WRJS	
				100		NQ	SB124QSJE	SB124QRJE	
			LSI Energy Electronic			I-Line	SB124ISJE	SB124IRJE	
			Electronic			None	SB124WSJE	SB124WRJE	
		600	LI Basic Electronic	05		I-Line	SB126IS	SB126IR	
		600		65		None	SB126WS	SB126WR	
	208Y/120 240/120	400	Thermal Magnetic	65		NQ	SB324QS	SB324QR	
						None	SB324WS	SB324WR	
			LSI Standard Electronic LSI Energy Electronic	100		NQ	SB324QSJS	SB324QRJS	
						None	SB324WSJS	SB324WRJS	
						NQ	SB324QSJE	SB324QRJE	
						None	SB324WSJE	SB324WRJE	
			Thermal Magnetic	65	35	I-Line	SB344IS	SB344IR	
						None	SB344WS	SB344WR	
		400	LSI Standard			I-Line	SB344ISJS	SB344IRJS	
Ø4W [1]		400	Electronic	100 65	05	None	SB344WSJS	SB344WRJS	
00400[1]			LSI Energy		65	I-Line	SB344ISJE	SB344IRJE	
			Electronic			None	SB344WSJE	SB344WRJE	
	208Y/120	600	LI Basic	6F	50	I-Line	SB346IS	SB346IR	
	240/120 480Y/277	600	Electronic	65	65	None	SB346WS	SB346WR	
		1	LI Basic	05	50	I-Line	SB348IS	SB348IR	
			Electronic	65	65	None	SB348WS	SB348WR	
		000	LSI Standard			I-Line	SB348ISJS	SB348IRJS	
		800	Electronic	100	e e	None	SB348WSJS	SB348WRJS	
			LSI Power	100	65	I-Line	SB348ISJP	SB348IRJP	
			Electronic			None	SB348WSJP	SB348WRJP	



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## Table 11.7: Single Main Fusible Disconnect with Distribution (Series E4)

	Service	Mains	Distribution	SCCR	SCCR	Fusible Discon	nect Catalog No.	
System	Voltage	Ratings (A)	Interior	240 V Max.	480 V Max.	Indoor	Outdoor	
			NQ	65	_	SF124QS	SF124QR	
		400	I-Line	100	_	SF124IS	SF124IR	
1Ø3W	120/240		None	200	_	SF124WS	SF124WR	
		600	I-Line	100	_	SF126IS	SF126IR	
		000	None	200	_	SF126WS	SF126WR	
3Ø4W [2]	208Y/120	400	NQ	65		SF324QS	SF324QR	
00411[2]	240/120	400	NQ	05	_	01 02400	3F324QR	
3Ø4W [2]	208Y/120	400	None	200	_	SF324WS	SF324WR	
02 [L]	240/120	400	None	200		51 524005	3F324WK	
	208Y/120		I-Line					
3Ø4W [2]	240/120	400		100	65	SF344IS	SF344IR	
	480Y/277							
	208Y/120	_	None	200		SF344WS		
3Ø4W [2]	240/120	400			200		SF344WR	
	480Y/277						<u> </u>	
	208Y/120	_	I-Line			SF346IS		
3Ø4W [2]	240/120	600		100	65		SF346IR	
	480Y/277							
	208Y/120	_	None		200			
3Ø4W [2]	240/120	600		200		SF346WS	SF346WR	
	480Y/277							
	208Y/120	_	I-Line					
3Ø4W [2]	240/120	800		100	65	SF348IS	SF348IR	
	480Y/277							
	208Y/120							
3Ø4W [2]	240/120	800	None	200	200	SF348WS	SF348WR	
	480Y/277			1			1	

## Table 11.8: Multiple Mains—Fusible (Series E4)

					Mains	240 V	Multiple Mains (6) F	usible Catalog No. [4]		
	System	Service Voltage	Rating (A)		or 480 V Max. [3]	Indoor	Outdoor			
	1Ø3W		120/240			400	200	SF124FS	SF124FR	
	1Ø3W		120/240			600	200	SF126FS	SF126FR	
;	3Ø4W [2]		208Y/120 240/120 408Y/277		-	400	200	SF344FS	SF344FR	
:	3Ø4W [2]		208Y/120 240/120 480Y/277		-	600	200	SF346FS	SF346FR	
:	3Ø4W [2]		208Y/120 240/120 480Y/277		_	800	200	SF348FS	SF348FR	
ble 11.	.9: I-Line [	Distributi	on Section (	Series E	-	election				
	Service	Mains	Distribution	SCCR	SCCR				Catalog N	lo.
System	Voltage	Ratings	Interior	240 V	480 V		Distribution Type			Outdoor

## Selection

### Table 11.9: I-Line Distribution Section (Series E4)

	Service Mains Distributi		Distribution	SCCR SC			Catalog No.	
System	Voltage	Ratings (A)	Interior	240 V Max.	480 V Max.	Distribution Type	Indoor	Outdoor
3Ø4W	208Y/120 240/120 480Y/277	800	I-Line	65 k	65 k	Add-on distribution section, must be connected to an SB UCT and main section without distribution panel, such as SB348WS. An I-Line plug-on subfeed lug kit must be ordered to terminate the distribution section.	SBAD800	SBAD800R
3Ø4W	208Y/120 240/120 480Y/277	800	I-Line	125 k	100 k	Stand-alone distribution section not connected to an SB section. A back-fed main circuit breaker or I-Line plug-on subfeed lug kit must be ordered to terminate the distribution section. (Non-ULSE)	SBSAD800	SBSAD800R

Table 11.10: Meter Door Selection

Meter Socket	15-inch High Door With One Meter Socket and Test Block	30-inch High Door With Two Meter Sockets and Test Blocks
Jaws	Catalog No.	Catalog No.
6 [5]	SBA15D6MS	_
8	SBA15D8MS	_
13	SBA15D13MS	SBA30D13MS
15	SBA15D15MS	SBA30D15MS
Blank	SBA15DBC	_
[6]	SBA15DMS	_

NOTE: To order structure with meter door factory-installed, add door catalog number as suffix to structure (for example, SF344IS-15D13MS).

#### Table 11.11: Accessories

Description	Catalog No.
Indoor underground pull section (w/o lug landing)—26-in. (W) Order separate SA8LL lug kit below if required.	SA26PS
Outdoor (3R) underground pull section (w/o lug landing)—26 in. (W) x 24.5 in. (D) Order separate SA8LL lug landing kit below when required.	SA26PSR
Lug landing kit—800 A max. For terminating utility service cables in indoor or outdoor underground pull sections.	SA8LL [7]
Single barrel lug kit —Kit provides single barrel lugs and pad in lieu of twin barrel lug provided with service section. Mechanical lugs provided are sized to fit 1-3/0–750 kcmil cable. Two lugs per phase are supplied.	SA7PL

Can be used on 3Ø3W Delta voltage systems (for example, 240 V Delta or 480 V Delta). QMB/QMJ fusible switches, maximum 400 A, SCCR based on Class J, R, or T fuses. QMB plug-in circuit breaker rating is equal to the lowest rating of the circuit breaker.

[2] [3] [4] [5] [6] [7] Multiple mains—provisions for mounting 30 inches of fusible devices. No more than six main devices permitted per NEC. 6-jaw meter socket can also be used on 4- and 5-jaw applications. Door with provisions for mounting meter socket. All EUSERC Utilities (except Arizona Public Service and Salt River Project) require a lug landing kit SA8LL.

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#### Table 11.11 Accessories (cont'd.)

Description								
Loadside wireway—11.5 in. (W) x 14 in. (D)—indoor only								
Bus link kit—800 A max.—Order one kit per phase for 400, 600, and 800 A.								
Double padlock hasp attachment—For mounting two padlocks on door handle of rainproof enclosure. Padlocks not included.								
	System	Phase	Pole Spaces					
Plug-On Distribution Panel—mounts on right side of I-Line interior. Cannot be used with LA/LH branch circuit breaker. Panel rated 225 A for 240 V applications. For QO™ type plug-on circuit breakers only.	1Ø	AC		SS212AC				
ranei rateu 225 A toi 240 V applications. Foi QO type plug-on circuit breakers only.	3Ø	ABC	12	SS312				
	3Ø	AB		SS212AB [8]				

### Table 11.12: Subfeed Circuit Breakers (Series E4)

Description	Rating	2-Pole Cat	alog No. [9]	3-Pole Catalog No.		
Description	(A) <sup>–</sup>	Left	Right	Left	Right	
	100	SASFBH100L()	SASFBH100R()	SASFBH100L	SASFBH100R	
Out for all Oliversite Developer Kite (40)	110	SASFBH110L()	SASFBH110R()	SASFBH110L	SASFBH110R	
Subfeed Circuit Breaker Kit [10] Includes circuit breaker, connectors and mounting	125	SASFBH125L()	SASFBH125R()	SASFBH125L	SASFBH125R	
hardware. The complete kit, mounting hardware, circuit	150	SASFBH150L()	SASFBH150R()	SASFBH150L	SASFBH150R	
breaker and connectors will be shipped direct from plant. Delivery is stock to three days.	175	SASFBJ175L()	SASFBJ175R()	SASFBJ175L	SASFBJ175R	
	200	SASFBJ200L()	SASFBJ200R()	SASFBJ200L	SASFBJ200R	
	225	SASFBJ225L()	SASFBJ225R()	SASFBJ225L	SASFBJ225R	

### **Ordering Information**

- Service section: Order service section from Table 11.6 Single Main Circuit Breaker 1. Service section (Series E4), page 11-12, Table 11.7 Single Main Gibble Main Fusible Disconnect with Distribution (Series E4), page 11-13, or Table 11.8 Multiple Mains—Fusible (Series E4), page 11-13, as determined by mains rating, voltage, and system.
  Meter doors: Order meter door from Table 11.10 Meter Door Selection, page 11-13 as determined by the height and utility metering requirements.
- 3. Accessories and subfeeds: Order as required from Table 11.11 Accessories, page 11-13 and/or Table 11.12 Subfeed Circuit Breakers (Series E4) , page 11-14.
- 4. Circuit breakers and switches: Order devices from pages listed below as determined by voltage, trip rating, AIR, and mounting space.

Multiple Mains and Branch Devices

- QO, QOB, QO-VH, QOB-VH: See Digest Section 1 or Section 7.
- I-Line: See Digest Section 9.
- QMB Switches: See Digest Section 9.

To be used on 120/240 V, 3Ø4W delta applications. [8]

[9] Two pole circuit breaker catalog numbers are completed by adding required phase connection letters as suffix (for example, SASFBH100LAC).

[10] Cannot use subfeed circuit breaker kit with multiple mains service section switchboards.