Product Description and Application

General

Product Description

Siemens stock service entrance switchboards are designed as stock units to meet the fast delivery needs of the market.

All of Siemens stock switchboards are suitable for service entrance. These switchboards combine utility metering provisions and a main service disconnect that can either be a Vacu-Break fusible switch or a molded case circuit breaker.

Stock switchboards have many applications, some of the most common include:

- Retail stores
- Office buildings
- Small factories
- Commercial stores and shopping centers

Individual Product Lines

Super Blue Pennant

- Specifically designed to meet EUSERC requirements
- Provision for EUSERC utility metering
- Main fusible switch or circuit breaker
- Optional distribution panel

BCT Service Cubicle

- Provision for utility metering (non-EUSERC)
- Main molded case circuit breaker

SCT Service Cubicle

- Provision for utility metering (non-EUSERC)
- Main Vacu-Break fusible switches

Additional Information

For complete application and pricing information contact your local Siemens sales office.

For further information on the product, visit our website at www.usa.siemens.com/switchboards

For detailed configuration information consult the selection and application guide on the website.



Super Blue Pennant



BCT Service Cubicle



SCT Service Cubicle

Product Description

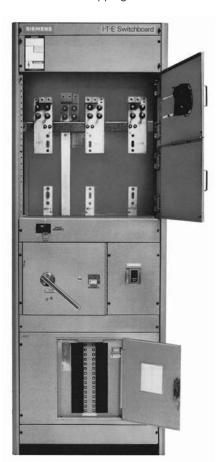
Siemens Super Blue Pennant stock service entrance switchboards are designed as stock units to meet the fast delivery needs of the market.

Super Blue Pennant Switchboards

Super Blue Pennant switchboards are suitable for service entrance and are specifically designed to meet EUSERC requirements. They combine utility metering provisions with either a main Sentron molded case circuit breaker or Vacu-Break fusible switch. An optional plug-in or bolt on distribution panel can also added in the field in the same section.

Super Blue Pennant switchboards have many applications, some of the most common include:

- Retail stores
- Office buildings
- Small factories
- Commercial stores and shopping centers



Super Blue Pennant

Features & Benefits

Features

- Up to 800 amperes
- Up to 480 volts AC
- Bus bracing up to 200KAIC
- Type 1 or Type 3R enclosures

Utility Provision

Incoming main lugs are mechanical screw-type, mounted on studs and accept a wide range of cable sizes. A barriered hot sequence utility metering compartment is supplied which meets all EUSERC requirements. The meter and test block provisions are also built to meet EUSERC requirements.

Main Disconnect

The main service disconnect can be either a Sentron molded case circuit breaker in 400, 600 or 800 amperes or a Vacu-Break fusible switch in 400 or 600 amperes.

Distribution Panel

Super Blue Pennant switchboards can accommodate an optional distribution panel assembly per unit with ratings of 400, 600 or 800 amperes. The distribution panel can take up to 40 single pole branch breakers which can be either bolt on or plug-in.

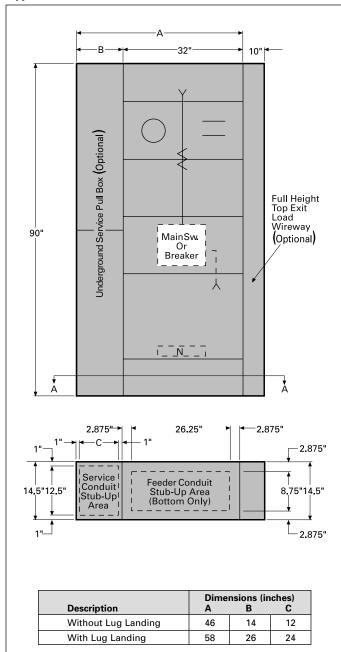
Standards & Certifications

- UL891
- NEMA PB-2
- · Seismically qualified
- Other equipment is UL listed as applicable

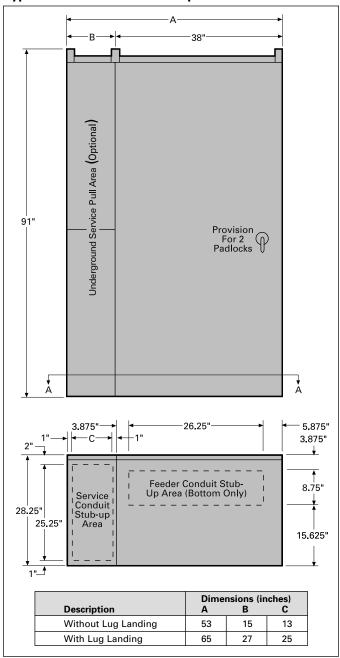
Super Blue Pennant Switchboards

Dimensions

Type 1 — Indoor



Type 3R — Outdoor Weatherproof



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Main Circuit Breaker

Main Device Ampere	Service	Catalog Number		Meter Socket	Distribution Kits	on Approxin		
Rating	Voltage	Indoor	Outdoor	Clips	Available	Indoor	Outdoor	
400 Ampere Line Lugs	120/240; 1-Phase, 3-Wire	PB224	WPB224	5@	PQ2630 PQ2612	320	1050	
(2)—%-500 kcmil (Copper or Aluminum) Breaker Rated 65,000A IR Symmetrical at 240 Volts	240/120; 3-Phase, 4-Wire Delta 240; 3-Phase, 3-Wire 208Y/120; 3-Phase, 4-Wire	PB424	WPB424	15	PQ4630 PQ4612	335	1060	
35,000A IR Symmetrical at 480 Volts Type JD6	480Y/277; 3-Phase, 4-Wire 480; 3-Phase, 3-Wire	PB444	WPB444	15	PE4630 PF4606	335	1060	
600 Ampere Line Lugs	120/240; 1-Phase, 3-Wire	PB226	WPB226	5@	PQ2630 PQ2612	320	1050	
(2)—3-500 kcmil (Copper or Aluminum) Breaker Rated 65,000A IR Symmetrical at 240 Volts	240/120; 3-Phase, 4-Wire Delta 240; 3-Phase, 3-Wire 208Y/120; 3-Phase, 4-Wire	Wire Delta 40; 3-Phase, Wire 18Y/120; 3-Phase,	WPB426	15	PQ4630 PQ4612	335	1060	
35,000A IR Symmetrical at 480 Volts Type LD6	480Y/277; 3-Phase, 4-Wire 480; 3-Phase 3-Wire	PB446	WPB446	15	PE4630 PF4606	335	1060	
800 Ampere	120/240; 1-Phase, 3-Wire	PB228	WPB228	5@	PQ2840 PQ2816	460	1090	
Line Lugs (3)—%-500 kcmil (Copper or Aluminum) Breaker Rated 65,000A IR Symmetrical at 240 Volts 50,000A IR	240/120; 3-Phase, 4-Wire Delta 240; 3-Phase, 3-Wire 208Y/120; 3-Phase, 4-Wire	PB428	WPB428	15	PQ4840 PQ4818	475	1090	
Symmetrical at 480 Volts Type MD6	480Y/277; 3-Phase, 4-Wire 480; 3-Phase, 3-Wire	PB448	WPB448	15	PE4840 PF4809	475	1090	



For inches / millimeters conversion, see conversion table in Application Data section.

①Load side lugs, distribution panel and subfeed kits are not included.
 ②For 6-jaw requirements, order 6th clip kit

②For 6-jaw requirements, order 6th clip kit from accessories.

Super Blue Pennant Switchboards

Selection

Main Fusible Switch^①

Main Device Ampere	Service	Catalog Number		Meter Socket	Distribution Kits	Approximate Weight (lbs.)	
Rating	Voltage	Indoor	Outdoor	Clips	Available	Indoor	Outdoor
	120/240; 1-Phase, 3-Wire	PF224	WPF224	53	PQ2630 PQ2612	365	1094
400 Ampere Line Lugs (2)—%-500 kcmil (Copper or Aluminum) 200,000 AIC	240/120; 3-Phase, 4-Wire Delta 240; 3-Phase, 3-Wire 208Y/120; 3-Phase, 4-Wire	PF424	WPF424	15	PQ4630 PQ4612	375	1110
maximum at 600 Volts	480Y/277; 3-Phase, 4-Wire 480; 3-Phase, 3-Wire	PF444	WPF444	15	PE4630 PF4606	375	1110
	120/240; 1-Phase, 3-Wire	PF226	WPF226	5 ³	PQ2630 PQ2612	370	1100
600 Ampere Line Lugs (2)—%-500 kcmil (Copper or Aluminum) 200,000 AlC maximum at	240/120; 3-Phase, 4-Wire Delta 240; 3-Phase, 3-Wire 208Y/120; 3-Phase, 4-Wire	PF426	WPF426	15	PQ4630 PQ4612	390	1110
600 Volts	480Y/277; 3-Phase, 4-Wire 480; 3-Phase 3-Wire	PF446	WPF446	15	PE4630 PF4606	390	1120



③For 6-jaw requirements, order 6th clip kit from accessories.

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•	•		
Ampere Rating	Description	Catalog Number	Wire Range
400	For Fusible	LKF4	(1)—3/0-750 kcmil (Cu or Al)
600	Switch	LKF6	(2)—3/0-500 kcmil (Cu or Al)
400	For Circuit	LKB4	(1)—600-750 kcmil (Cu or Al)
600	Breaker	LKB6	(2)—3/0-350 kcmil (Cu or Al)
800		LKB8	(2)-600-750 kcmil (Cu or AI)



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Distribution Panel Kits — Discount Schedule SWBD

Ampere		Number and T	Number and Type of Breaker Poles			Catalog	
Rating	Voltage	QP or HQ ^⑦	ED4®	QJ2 or QJH2®	FXD6@@7	Number	Weight
	120/240V; 1-Phase, 3-Wire	30	-	_	_	PQ2630	39
	120/240V, 1-Filase, 3-VVIIe	12	_	12	_	PQ2612	39
400 and	240/120V; 3-Phase, 4-Wire Delta ⁴ 240V; 3-Phase, 3-Wire	30	_	_	_	PQ4630	42
600	208Y/120V; 3-Phase, 4-Wire	12	_	12	_	PQ4612	**
	480Y/277V; 3-Phase, 4-Wire	_	30	_	_	PE4630	42
	480V; 3-Phase, 3-Wire	_	12	_	6	PF4606	65
	100/040V/- 1 Plana - 0 William	40	_	_	_	PQ2840	65
	120/240V; 1-Phase, 3-Wire	12	_	16	_	PQ2816	00
800	240/120V; 3-Phase, 4-Wire Delta @3 240V; 3-Phase, 3-Wire	40	_	_	_	PQ4840	70
000	208Y/120V; 3-Phase, 4-Wire	12	_	18	_	PQ4818	70
	490\/: 2 Phase 2 \//ira	_	40	_	_	PE4840	65
	480V; 3-Phase, 3-Wire	_	12	_	9	PF4809	70

Circuit Breaker Subfeed Kits: (Breakers Not Included) — Discount Schedule SWBD

Description	Catalog Number
For FXD6-225A 2 or 3-pole	PSFFJ6
For JXD6, JD6, HJD6 400A 2 or 3-pole	PSFJL6

For inches / millimeters conversion, see conversion table in Application Data section.

Oincludes phase and neutral load lugs and neutral link assembly.

@2-pole FXD6 requires 3-pole space.

©Includes branch neutral and disconnect link assembly. @1-pole breakers must not be connectedto "B" phase. @2-pole breakers must be rated 240V. @FXD6 circuit breakers are limited to 225A maximum. @Price from Molded Case Circuit Breaker section.

= Warehouse Stock

Super Blue Pennant Switchboards

Accessories

Description	Catalog Number		
Underground Pull Section or Full Height Section For Load Wiring — Discount Schedule SWBD			
14.5" Deep 90" High 14" Wide (12" opening) — indoor 15" Wide (12" opening) — outdoor	PUG14 WPUG14		
26" Wide (24" opening) — indoor 27" Wide (24" opening) — outdoor	PUG26 WPUG26		
10" Wide (load wiring)	PLW10		

Lug Landing Kits — Discount Schedule SWBD (Requires Catalog Number PUG26 or WPUG26)

400A	1-Phase, 3-Wire or 3-Phase, 4-Wire	PLL44 ^①
600A	1-Phase, 3-Wire or 3-Phase, 4-Wire	PLL46 [⊕]
800A	1-Phase, 3-Wire or 3-Phase, 4-Wire	PLL48 ^①

"R" Fuse Clip Adapter Kit (Set of 3) — Discount Schedule VBSS

400A 250/600V	SSRK35
600A 250/600V	SSRK36

"J" Fuse Clip Adapter Kit (Set of 3) — Discount Schedule VBSS

400A 250V	W49814
400A 600V	W49816
600A 240V	W49813
600A 600V	W49815

"T" Fuse Clip Adapter Kit (One Pole Kit) — Discount Schedule VBSS

400A 240V	TFAK52
400A 600V	TFAK55
600A 240V	TFAK62
600A 600V	TFAK65

Optional Meter Sockets and Doors — Discount Schedule SWBD

Meter Compartment Door (32" Wide x 15" High for "S" base socket with test block cutout (order necessary meter base from items below)	PSP32
Meter Compartment Door (32" Wide x 30" High) for 2 "S" base meters with mounting provisions for test block and printing demand meter (order meter base from table below) Left Hand Hinge or Right Hand Hinge	PSDP32
Blank Meter Compartment Door (32" Wide x 15" High)	PBP32
5 Clip Meter Socket with ring	PMS5
6 Clip Meter Socket with ring	PMS6
8 Clip Meter Socket with ring	PMS8
13 Clip Meter Socket with ring	PMS13
15 Clip Meter Socket with ring	PMS15

Filler Plates — Discount Schedule MCCB

QP, BL, BQD, NGB, ED	QF3
EB	EBF1

Handle Blocking and Padlock Devices — Discount Schedule MCCB

Blocking (QP-HQP 1, 2 and 3-pole)	ECQL1
Blocking (QJ2, QJ2-H, QJH2)	QJHS1
Blocking (ED2, ED4, ED6)	E2HBL
Padlock (QP-HQP)	ECQLD3
Padlock (QJ2, QJ2-H, QJH2)	HL9419
Padlock (ED2, ED4, ED6)	ED2HPL

Equipment Ground Bus — Discount Schedule SWBD

zquipinionit Ground zuo	2.000ant consulate CT22	
		PEGB42

For inches / millimeters conversion, see conversion table in Application Data section.

①A PUG26 or WPUG26 Underground pull section is required when using these lug landing kits.

■ = Warehouse Stock

Siemens BCT switchboards incorporate a utility current transformer compartment and a Sentron molded case circuit breaker in a single section.

BCT switchboards have many applications, some of the most common include:

- Retail stores
- Office buildings
- Small factories
- Commercial stores and shopping centers







Utility metering provsion



Neutral disconnect link

Features & Benefits

Features

- Up to 1200 amperes
- Up to 600 volts AC
- Bus bracing up to 100KAIC
- Type 1 enclosures only

Utility Provision

The provision can be adjusted for use with 12" or 14.5" primary bar type current transformers. All switchboards are supplied as top feed cold sequence metering only. Switchboards can be field modified for other configurations per the available configurations table below.

Main Disconnect

The main service disconnect is a Sentron molded case circuit breaker available from 400 to 1200 amperes.

Enclosure

The enclosure is tamperproof with a hinged door over the utility provision compartment with a latch for the utility to be able to seal off the compartment. Enclosures are only available as type 1 indoor.

Standards & Certifications

- UL891
- NEMA PB-2
- Other equipment is UL listed as applicable

Connectors (Per Phase & Neutral)

Ampere Rating	Connectors Suitable For Cu or Al
400	(1) 4/0-500 kcmil
	(2) 250 kcmil
600	(2) 4/0-500 kcmil
800	(2) 250-500 kcmil
1000	(4) 250-500 kcmil
1200	(4) 250-500 kcmil

BCT Catalog Numbers & Application Data

Catalog Number		cal Amperes		Ampere Rating			Dimensions Available (inches) Configurati					
	240V	480V	600V		System Volt	age	Height	Width	Depth	Top Feed Cold Seq.	Top Feed Hot Seq.	Bottom Feed Cold / Hot Seq.
BCT436JXD6	65,000	35,000	25,000	400	120/240V	1 Dhana 2 Wina				•	•	•
BCT436HJD6	100,000	65,000	35,000	400	208Y/120V	8Y/120V 3-Phase, 4-Wire 7	70			•	•	
BCT636LXD6	65,000	35,000	25,000	600	240V					•	•	•
BCT636HLD6	100,000	65,000	35,000	480Y/277V 480V					•	•		
BCT836MXD6	65,000	50,000	25,000			1	3-Phase, 3-Wire 3-Phase, 3-Wire		32	13.75	•	•
BCT836HMD6	100,000	65,000	50,000	800	6000	3-Filase, 3-VVIIe		32	13.75	•		
BCT1036NXD6	65,000	_	_	1000			90			•	•	•
BCT1036HND6	100,000	_	_	1000	208Y/120V	3-Phase, 4-Wire	90			•		
BCT1236NXD6	65,000	_	_	1200	240V	3-Phase, 4-Wire				•	•	•
BCT1236HND6	100,000		_	1200						•		
PTE	Potential T	ransformer	Enclosure	_	_	_	20	20	10			

SCT Service Cubicle Selection

Product Description

Siemens SCT stock service entrance switchboards are designed as stock units to meet the fast delivery needs of the market.

Siemens SCT switchboards incorporate a utility current transformer compartment and a Vacu-Break fusible switch.

SCT switchboards have many applications, some of the most common include:

- Retail stores
- Office buildings
- Small factories
- Commercial stores and shopping centers

1

SCT Service Cubicle

Features & Benefits

Features

- Up to 1200 amperes
- Up to 600 volts AC
- Bus bracing up to 200KAIC
- Type 1 enclosures only

Utility Provision

The provision can be adjusted for use with 12" or 14.5" primary bar type current transformers. All switchboards are supplied as top feed cold sequence metering only.

Main Disconnect

The main service disconnect is a Vacu-Break fusible switch available from 400 to 1200 amperes.

Enclosure

The enclosure is tamperproof with a hinged door over the utility provision compartment with a latch for the utility to be able to seal off the compartment. Enclosures are only available as type 1 indoor.

Standards & Certifications

- UL891
- NEMA PB-2
- Other equipment is UL listed as applicable



Vacu-Break Main Switch

Connectors (Per Phase & Neutral)

Ampere Rating	Connectors Suitable For Cu or Al
400	(1) 4/0-500 kcmil (2) 250 kcmil
600	(2) 4/0-500 kcmil
800	(2) 250-500 kcmil
1000	(4) 250-500 kcmil
1200	(4) 250-500 kcmil

Fuse Clips

Ampere Fuse Symmetrical Amperes				
Rating	Clip	Interrupting Capacity		
400 - 600	R	200,000		
800 - 1200	L	100,000		

SCT Catalog Numbers & Application Data

Catalog Number		Ampere			Dimension	s (inches)	
Cold Sequence	Hot Sequence	Rating	System Voltage	System Voltage		Width	Depth
SCT432	LSCT432	400	120/240V	1-Phase, 3-Wire			
SCT632	LSCT632	600	208Y/120V 240V	3-Phase, 4-Wire 3-Phase, 3-Wire			
SCT436	LSCT436	400	480Y/277V	3-Phase, 4-Wire	00		
SCT636	LSCT636	600	480 or 600V	3-Phase, 3-Wire	90	32	20
SCT836	LSCT836	800	All	_			
SCT1236	LSCT1236	1200	208Y/120V 240V	3-Phase, 4-Wire 3-Phase, 3-Wire			

Switchboard Replacement Parts and Modification Kits

Replacement Information. Accessories & Modifications

Selection

Connection Strap Kits - Circuit Breaker[®]

For use with SB1, SB2, SB3, FC20, FCI, FCII, CDP-6 & VB-6 switchboards or series 5 or 6 CDP circuit breaker panelboards. Includes straps, cover plates and necessary hardware for switchboards manufactured since 1974. For replacement strap kits for RCIII switchboards, contact your local sales office.

Max Amp Rating	Breaker Family	Breaker Type	Catalog Number ²	Unit Height (inches)	Mounting
100	General	BL, BQD	SBLBD	3.75	Twin
	General	EB	SEBD	3.75	Twin
125	General	NGB	SNBD	3.75	Twin
123	General	ED	6E62	3.75	Twin
	General	CED	6CLE2	3.75	Twin
150	VL	DG	SDGD	5	Twin
225	General	ΩJ	6QJ2	5	Twin
	VL	FG	SFGD	5	Twin
250	Sentron	FD	6F62	5	Twin
	Sentron	CFD	6CLF1	5	Single
	VL	JG	SJG2D [®]	6.25	Twin
	VL	JG	SJG1D	6.25	Single
	Sentron	JD	6JJ61	8.75	Single
400	Sentron	JD	6JJ62	8.75	Twin
	Sentron	CJD	6CLJ1	8.75	Single
	Sentron	SJD	6SJL1	8.75	Single
	Sentron	SCJD	6SCJ1	8.75	Single
	VL	LG	SLGD	6.25	Single
	Sentron	LD	6LL61	8.75	Single
600	Sentron	CLD	6CLL1	8.75	Single
	Sentron	SLD	6SLL1	8.75	Single
	Sentron	SCLD	6SCL1	8.75	Single
	VL	MG	MG1D	8.75	Single
000	Sentron	LMD	SLM1D	8.75	Single
800	Sentron	MD	SMND	10	Single
	Sentron	SMD	SSMND	10	Single
	VL	NG	NG1D	10	Single
1200	Sentron	ND	SMND	10	Single
	Sentron	SND	SSMND	10	Single

Filler Plates[®]

For use with SB1, SB2, SB3, FC20, FCI, FCII, CDP-6 & VB-6 switchboards or series 5 or 6 CDP circuit breaker panelboards. Includes straps, cover plates and necessary hardware for switchboards manufactured since 1974. For replacement strap kits for RCIII switchboards, contact your local sales office.

Breaker Frame	Filler Plate Catalog Number	Notes
BL, BQD, ED	QF3	Per Pole
EB	EBF1	Per Pole

Note: When a front filler plate is not completely filled with breakers, the openings in the unused space must be closed with 1-pole filler plates from table.

For inches / millimeters conversion, see conversion table

- Consult sales office for availability
- ② Connecting strap kit includes front filler plate after 1/91.

Connection Strap Kits - Vacu-Break & HCP[®]

For use with SB1, SB2, SB3, FC20, FCI, FCII, VB-5 & VB-6 switchboards. Includes straps, cover plates and necessary hardware for switchboards manufactured since 1974. For replacement strap kits for RCIII switchboards, contact your local sales office.

Switch Type	Ampere Rating	Unit Height (inches)	Catalog Number
Vacu-Break	30-30	5, 7.5	VB657
	30-60	5, 7.5	
	60-60	5, 7.5	
	60-100	7.5	
	100-100	7.5	
	100	7.5	
	200	7.5, 10	VB671
	200-200	10	VB610
	400-600	15	VB6150
HCP	800-1200	16.25	F6162D

Blank Plates - Circuit Breaker & Fusible Switch®

For use with SB1, SB2, SB3, FC20, FCI, FCII switchboards or series 5 or 6 VB and CDP panelboards.

Unit Height (Inches)	Catalog Number
1.25	6FPB01
2.5	6FPB02
3.75	6FPB03
5	6FPB05
10	6FPB10

Replacement Meter Socket Kits^{①34}

For use with SMM and SMD metering switchboards

Туре	Catalog Number
1-Phase	MSK2001
3-Phase	MSK2003

Connecting Kits^{①3}

For use with SMM and SMD metering switchboards

Disconnect Device	Catalog Number
NGG	SMMNGMK
EG	SMMHEMK
BQ	SMMBQMK
QJ	SMMQJMK
ED	SMMEDMK
FD	SMMFDMK
CED	SMMCEMK
T-Fuse Pullout	SMMTFMK

⑤ Twin mounted VL JG breakers places the trip unit under the gutters preventing the trip unit from being visible by the customer.

Siemens Type WMS263 Meter Sockets are rated 200A in application Data Section