BUYLOG SECTION 12

Switchboards

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Top 10 switchboard publications

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ReliaGear SB installation, operations, and maintenance manual	1VAL088301-MB
Spectra installation manual	GEH-5875
Evolution installation manual	GEH-5876

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ReliaGear SB switchboards

Product introduction
Combining decades of GE switchboard experience with ABB's cutting edge Tmax XT circuit breaker platform, ReliaGear SB is truly the best of both worlds, providing reliability and flexibility unmatched in the industry.

Application
In response to customer demand for a safer, smarter, and more sustainable switchboard, ReliaGear SB is available to meet the ever expanding needs of the marketplace. ReliaGear SB features a safe, reliable design and groundbreaking Tmax XT plug-in circuit breakers to dramatically save time, labor, and cost, while helping to ensure greater energy efficiency and reliability. ReliaGear SB is available up to 6,000A and 600 VAC. Plug-in group-mounted distribution sections allow for devices, such as circuit breakers, to be installed anywhere on the bus stack.

Product highlights
Safe, smart, and sustainable

Safe
- Finger-safe bus stack that meets IP20 standards
- Reduced risk of contact with live parts when inserting and removing components
- Integrated Bluetooth® technology allows for viewing circuit breaker parameters from outside an arc-flash zone

Smart
- Devices, such as circuit breakers, install anywhere on the bus stack
- Hinged gutter doors for quick, convenient cable access
- Captive, hinged splice plates for easy connections between sections
- Field upgradeable circuit breaker trip units

Sustainable
- Spring-loaded circuit breaker plug-in connectors
- Magnetic forces generated by a short circuit make an even tighter connection
- No more bolted joints that can become loose or require torque checks

Product characteristics
- 3P3W and 3P4W – 600/347V, 480/277V, 208/120V
- Fully rated 100 kAIC at 480V, 65 kAIC at 600V
- Main circuit breakers: up to 6000A
- Main lugs: up to 6000A
- Plug-in branch circuit breakers: 15-1200A
- NEMA 1 or 3R enclosures
- Utility CT compartments
- Seismic ratings: CBC-2019/IBC-2018 and OSHPD levels 2.5g SDS (z/h:0) and 2.0g SDS (z/h:1)
- Depths: 25-60 inches, widths: 30-60 inches, both in 5-inch increments

Sales configurator
ReliaGear SB is part of the empower platform.

ReliaGear SB shown in offset configuration.

ReliaGear SB shown in one-side configuration.

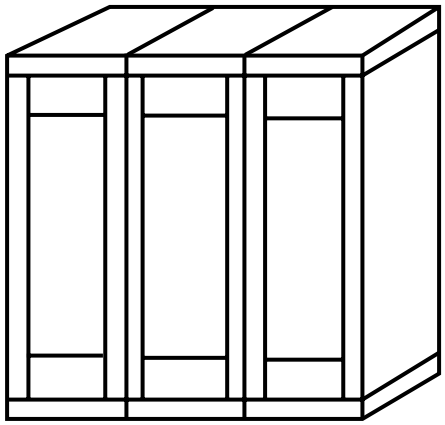
For more information refer to the following publications:

ReliaGear SB descriptive bulletin	1VAL088301-DB
ReliaGear SB installation, operations, and maintenance manual	1VAL088301-MB
ReliaGear SB application guide	1VAL088301-TG

Evolution Series switchboards

Product introduction
Evolution Series switchboards offer a state-of-the-art design that provides the high quality, safety and reliability long associated with ABB group-mounted switchboards. Evolution Series switchboards are designed and manufactured to meet the stringent ABB internal standards along with NEMA, NEC, UL and cUL requirements. In addition, Spectra RMS and Record Plus circuit breakers meet all NEMA, NEC, IBC Seismic, UL and cUL requirements, plus those for JIS and IEC.

Note: Evolution switchboards feature pre-installed splicing as well as front connected neutrals and grounds



Class 1

Group-mounted main and feeders

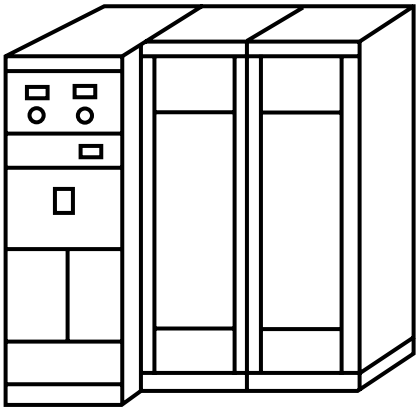
Front-connected
- 1200A main maximum
- 1200A feeders maximum
- Rear alignment standard
- Minimum depth 25"
- Main lugs to 2000A
- May be mounted against wall

Main and feeder devices group-mounted
- Molded case circuit breakers
- Fusible switches type ADS (plug-in style only)
- Spectra RMS molded case circuit breakers
- Spectra RMS molded case circuit breakers with microEntelliGuard™ trip units
- Record Plus molded case circuit breakers
- Current-limiting circuit breakers
- Integral ground fault, protective relay functions, network communications, ground fault alarm, neutral protection, ZSI and waveform capture available with microEntelliGuard.

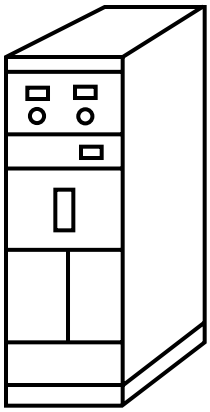
For more information refer to the following publications:

Evolution switchboard application guide	DET-773

Evolution Series switchboards



Class 2



Class 5

Individually-mounted main, group-mounted feeders
Front accessible or front/rear
- 6000A main maximum (EntelliGuard™)
- 1200A group-mounted feeders maximum
- Rear alignment standard or front and rear alignment
- Utility CT compartments
- Main lugs to 6000A
- Depths: Mains 25" - 60" feeders 25" minimum
- Plug-in or bolt-on construction for group-mounted feeders

Mains individually-mounted
- Power Break™ II insulated case circuit breakers 800 - 4000A with Power+ or EntelliGuard trip units
- High pressure contact switches 800 - 4000A
- Integral ground fault with Spectra Series, Power Break Series and EntelliGuard
- Integral protective relay functions with EntelliGuard TU
- Integral POWER LEADER network communications with EntelliGuard TU
- EntelliGuard low voltage power circuit breakers up to 6000A

Feeder devices, group-mounted
- Molded case circuit breakers
- Fusible switches type ADS (plug-in style only)
- Spectra RMS molded case circuit breakers
- Spectra RMS molded case circuit breakers with microEntelliGuard trip units
- Record Plus molded case circuit breakers
- Current-limiting circuit breakers
- Integral ground fault, protective relay functions, network communications, ground fault alarm, neutral protection, ZSI and waveform capture available with microEntelliGuard.

Individually-mounted mains and feeders
- 800A - 4000A
  - HPC switch
  - Power Break II
- 400A - 1200A
  - Spectra circuit breaker
- 400 - 600A Record Plus
- 400A - 6000A EntelliGuard circuit breaker (main, tie and feeder devices)

Note: For applications requiring insulated/isolated bus, generator control and extensive relaying refer to AV-3 or Power Break.

Evolution Series switchboards

ABB Evolution switchboards

Class 1

Description	Available devices		
	Function	Type	Rating (Amps)
Group mounted—mains and feeders Rear alignment standard Front accessible Max. 1200-amp mains—1200-amp feeders	Main	MCCB	1200
		ADS	1200
	Feeders	MCCB	1200
		ADS	1200

Evolution Class 2

Description	Available devices		
	Function	Type	Rating (Amps)
Individually mounted mains Group mounted feeders Rear alignment standard Main section side or rear accessible standard Feeder sections-front access Max. 6000-amp mains—1200-amp feeders Utility metering compartment	Main	MCCB	1200
		ADS	1200
		HPC	4000
		PB II	4000
		EntelliGuard	6000
	Feeders	MCCB	1200
		ADS	1200

Standards
ABB switchboards are manufactured to meet specific quality standards using standardized components. They meet the following standard:
(a) Underwriters Laboratories No. UL891.
Note: ABB switchboards are constructed to this standard as to enclosure, busing, wiring and clearances. Only switchboards or switchboard sections containing all UL Listed devices can be UL labeled.
(b) NEMA Standard PB2-latest issue.
(c) cUL

Short-circuit rating
The standard main or vertical bus in each switchboard is aluminum (copper optional) braced for an integrated equipment rating of 65,000 rms symmetrical amperes. When required, bus bars can be furnished braced for higher short-circuit currents.

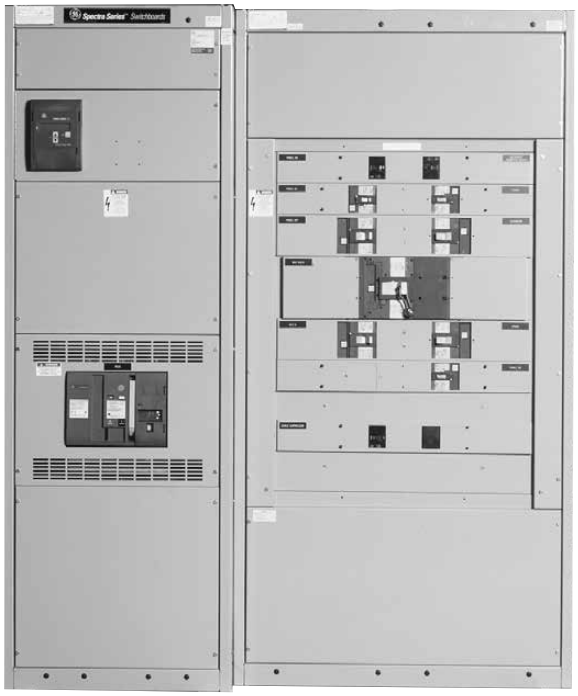
Ground bus
Ground bus is furnished as standard.

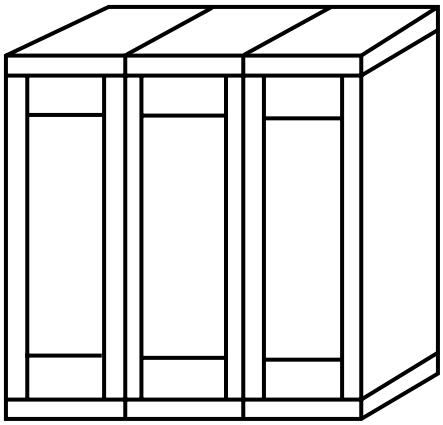
Space and busing for future
When space only is required for future addition of any specified feeder device in an ABB switchboard, corresponding vertical bus and blank filler plate will be furnished. Device mounting hardware may be included, when specified in Speedi.

Blank space only
When blank space is specified for any class of ABB switchboard, corresponding vertical bus, device mounting, and connecting straps will not be furnished.

Spectra Series switchboards

Product introduction
Spectra Series switchboards offer a state-of-the-art design that provides the high quality, safety and reliability long associated with ABB group-mounted switchboards. Spectra Series switchboards are designed and manufactured to meet the stringent ABB internal standards along with NEMA, NEC, UL and cUL requirements. In addition, Spectra RMS and Record Plus circuit breakers meet all NEMA, NEC, IBC Seismic, UL and cUL requirements, plus those for JIS and IEC.





Class 1

Group-mounted main and feeders

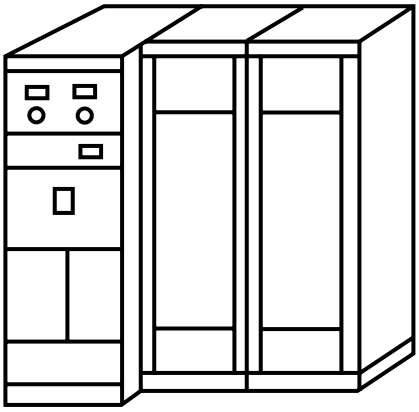
Front-connected
- 1200A main maximum
- 1200A feeders maximum
- Rear alignment standard
- Minimum depth 25"
- Main lugs to 2000A
- May be mounted against wall

Main and feeder devices group-mounted
- Molded case circuit breakers
- Fusible switches type ADS (Spectra plug-in only)
- Spectra RMS molded case circuit breakers
- Spectra RMS molded case circuit breakers with microEntelliGuard trip units
- Record Plus molded case circuit breakers
- Current-limiting circuit breakers
- Integral ground fault, protective relay functions, network communications, ground fault alarm, neutral protection, ZSI and waveform capture available with microEntelliGuard.

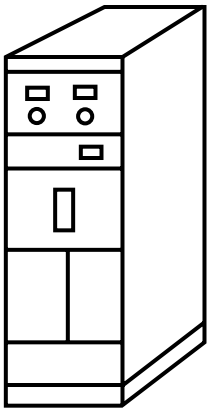
For more information refer to the following publications:

Spectra switchboard application guide	GET-8032B
Spectra switchboard quick reference guide	DE-280C

Spectra Series switchboards



Class 2



Class 5

Individually-mounted main, group-mounted feeders
Front accessible or front/rear
- 4000A main maximum (Power Break II)
- 1200A group-mounted feeders maximum
- Rear alignment standard or front and rear alignment
- Utility CT compartments
- Main lugs to 6000A
- Depths: Mains 25" - 60" feeders 25" minimum
- Plug-in or bolt-on construction for group-mounted feeders

Mains individually-mounted
- Power Break II insulated case circuit breakers 800 - 4000A with EntelliGuard trip units
- High pressure contact switches 800 - 4000A
- Integral ground fault with Spectra Series, Power Break Series and WavePro
- Integral protective relay functions with EntelliGuard TU
- Integral POWER LEADER network communications with EntelliGuard TU
- Bolted pressure switches 800 - 4000A

Feeder devices, group-mounted
- Molded case circuit breakers
- Fusible switches type ADS (Spectra plug-in only)
- Spectra RMS molded case circuit breakers
- Spectra RMS molded case circuit breakers with microEntelliGuard trip units
- Record Plus molded case circuit breakers
- Current-limiting circuit breakers
- Integral ground fault, protective relay functions, network communications, ground fault alarm, neutral protection, ZSI and waveform capture available with microEntelliGuard.

Individually-mounted mains and feeders
- 800A - 4000A
  - HPC switch
  - Power Break II
- 400A - 1200A
  - Spectra circuit breaker
- 800 - 4000A bolted pressure switch

Note: For applications requiring insulated/isolated bus, generator control and extensive relaying refer to AV-3 or Power Break.

Spectra Series switchboards

ABB Spectra switchboards

Class 1

Description	Available devices		
	Function	**Type**	**Rating (Amps)**
Group mounted—mains and feeders Rear alignment standard Front accessible Max. 1200-amp mains—1200-amp feeders	Main	MCCB	1200
		ADS	1200
	Feeders	MCCB	1200
		ADS	1200

Spectra Class 2

Description	Available devices		
	Function	**Type**	**Rating (Amps)**
Individually mounted mains Group mounted feeders Rear alignment standard Main section side or rear accessible standard Feeder sections-front access Max. 4000-amp mains—1200-amp feeders Utility metering compartment	Main	MCCB	1200
		ADS	1200
		HPC	4000
		X/PB II	4000
		WavePro	5000
		BPS	4000/5000[1]
	Feeders	MCCB	1200
		ADS	1200

[1] Not UL labeled.

Standards
ABB switchboards are manufactured to meet specific quality standards using standardized components. They meet the following standard:
(a) Underwriters Laboratories No. UL891.
Note: ABB switchboards are constructed to this standard as to enclosure, busing, wiring and clearances. Only switchboards or switchboard sections containing all UL Listed devices can be UL labeled.
(b) NEMA Standard PB2-latest issue.
(c) cUL

Short-circuit rating
The standard main or vertical bus in each switchboard is aluminum (copper optional) braced for an integrated equipment rating of 65,000 rms symmetrical amperes. When required, bus bars can be furnished braced for higher short-circuit currents.

Ground bus
Ground bus is furnished as standard.

Space and busing for future
When space only is required for future addition of any specified feeder device in an ABB switchboard, corresponding vertical bus and blank filler plate will be furnished. Device mounting hardware may be included, when selected in Speedi.

Blank space only
When blank space is specified for any class of ABB switchboard, corresponding vertical bus, device mounting, and connecting straps will not be furnished.

Group mounted switchboards

Commercial metering switchboard
EUSERC West Coast utility applications
NON–EUSERC utility applications
Lever bypass

ABB commercial metering switchboards are designed specifically to serve the EUSERC market in the western United States. In addition, they serve the NON-EUSERC markets with a lever by-pass arrangement. They are UL listed and labeled and offer a wide range of installation and performance features that simplify any project.

Metering sections are assembled with two sockets pre-wired on the line and load sides. All sockets are 200A continuous duty. A full selection of tenant mains are available including circuit breakers, fusible switches and T-fuse pullouts.

Standards
Switchboard
- UL 891
- NEMA PB-2

Meter sockets
- UL 414
- ANSI C12.7

Circuit breakers
- UL 489

Fused switches
- UL 98

Other key features
- 4000 main service, 480V maximum
- Aluminum or copper bus
- 65,000A symmetrical bracing standard; 200K available
- 200A continuous duty sockets
- Hot and cold sequencing is available
- Type 3R construction available

Available sections
- Underground pull sections
- Underground pull section with main switch
- Underground pull section with main circuit breaker
- Overhead sections with main switch or circuit breaker
- CT meter sections with main switch
- CT meter sections with main switch and distribution
- CT meter sections with main circuit breaker
- CT main sections with main circuit breaker and distribution
- CT meter sections with main lugs
- Auxiliary sections (wireways, corner sections)
- Multi meter sections with fusible pullout mains
- Multi meter sections with circuit breaker mains
- Distribution sections

For application and size information, refer to publication DEA-552, electrification.us.abb.com, or contact your local sales office.

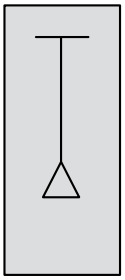
Group mounted switchboards

Commercial metering switchboard

Section types

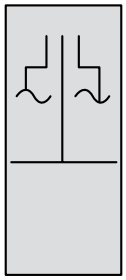
- UL Listed, EUSERC, Louisville Gas and Electric, KY Approved
- 208Y/120V, 240Y/120V or 480Y/277V
- 100 kAIC, 150 kAIC up to 4000A, 200 kAIC at 3000A and 4000A
- 400, 600, 800, 1000, 1200, 2000, 3000, 4000A
- NEMA 1 or 3R enclosure
- Bottom feed, center feed, and top busway
- Cu or Al bus
- Refer to Speedi for all sizing

Underground pull sections



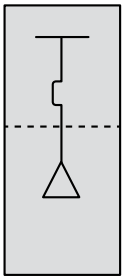
- 100 kAIC
- Bottom feed
- Cu or Al bus
- NEMA 1 or 3R

Top incoming busway



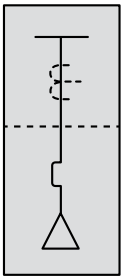
- 400A-4000A
- NEMA 1 or 3R

Half height pull sections with single main circuit breaker



- 400A-2000A
- G, K and PBII circuit breakers
- HPC and BPS fused switches
- Device padlocking
- SE barriers
- Equipment groundfault protection on 1200A-2000A (optional on 400A-1000A)
- Front access

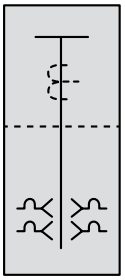
Large tenant metering



- Hot sequence metering
- SG, SK, PBII, BPS, HPC
- Bottom or top exit
- Device padlocking
- Equipment ground fault protection
- Mounting provisions for CTs
- Isolating barriers
- Hinged sealable cover

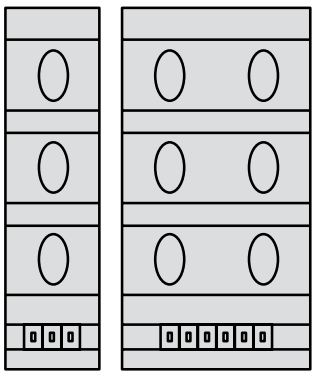
- Transformer rated meter socket
- Front access
- Middle or bottom mounted neutral
- Lever bypass meter sockets available
- Submains
- Rear load wire way spacing 8" minimum

Distribution panel



- Interior 2000A, Cu bus, 100 kAIC
- 13, 18x distribution space
- Bolt-on and plug-in
- 3Ph 4W
- Spectra main circuit breaker or main lug only interior
- CT compartment up to 2000A
- Front neutral access
  - Submains

Small tenant metering



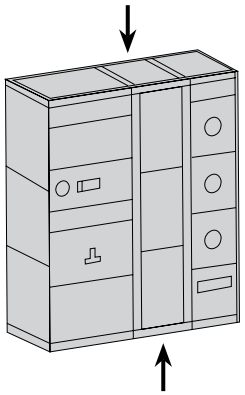
- Cold and hot sequences
- Tenant disconnects SF, T-fuse pullout J fuse constructions:
  - SF (100A, 200A)
  - T-fuse pull out (100A, 200A)
- 3Ph 4W service
- 3 pole, 2 pole disconnects
- 600A-4000A horizontal bus
- 3-pack 20" width, 6-pack 35" width
- 25" minimum depth for top or bottom exit - to 60"
- Provisions for field installable socket and circuit breaker additions

- Front access
- 100% rated neutral; standard ground rating
- Middle or bottom mounted neutral
- Ringless style meter sockets
- Lever bypass meter sockets available
- Service entrance barriers
- 100 kAIC
- Top and bottom feed exit
- Test bypass block meter socket available
- Ringless cover - NO hinge (ST only)
- 5, 7, 13 jaw sockets
- Locking jaws
- Flash shields
- Line lugs at top, customer load connection at bottom
- Small tenant meters; 3- or 6-pack
- All disconnects lockable in OFF position
- Rear load wire way spacing 3" minimum

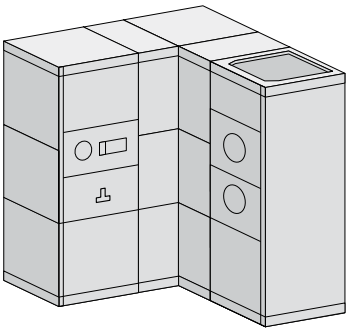
Group mounted switchboards

Commercial metering switchboard

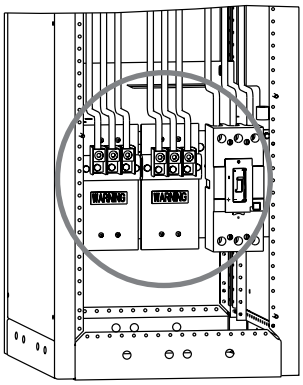
Side load wireway
- 15" minimum width, copper or aluminum bus



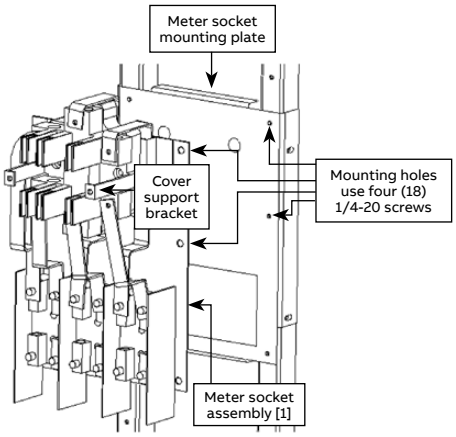
Corner section
- Copper or aluminum bus
- Available in Speedi
- In most cases a 15" section will be added on each side of the corner



UL Approved field-installable small tenant kits
- Prewired sections meet UL



Meter spaces



Meter socket with device space field kit

Disconnect	Rating	Product number
35 kAIC circuit breaker	277/480V, 200A	CM 203M SB600V
	277/480V, 100A	CM 103M SB600V
65 kAIC circuit breaker	277/480V, 200A	CM 203M SB600VH
	277/480V, 100A	CM 103M SB600VH
	120/208V, 200A	CM 203M SB240V
	120/208V, 100A	CM 103M SB240V
	120/240V, 200A	CM 203M SSB240V
	120/240V, 100A	CM 103M SSB240V
T-fuse pullout	277/480V, 200A	CM 203M STF600V
	120/208V, 200A	CM 203M STF240V
	120/240V, 200A	CM 201M STF240V
FD1 Switch	277/480V, 200A	CM 200M SJF600V
	120/480V, 100A	CM 200M SJF240V

Meter socket space with device space field kit

Disconnect	Rating	Product number
35 kAIC circuit breaker	277/480V, 200A	CM200A35K480V
	277/480V, 100A	CM100A35K480V
65 kAIC circuit breaker	277/480V, 200A	CM200A65K480V
	277/480V, 100A	CM100A65K480V
	120/208V, 200A	CM200A65K208V
	120/208V, 100A	CM100A65K208V
	120/240V, 200A	CM200A65K240V
	120/240V, 100A	CM100A65K240V
T-fuse pullout	277/480V, 200A	CM200ATF280V
	120/208V, 200A	CM200ATF208V
	120/240V, 200A	CM200ATF240V

Notes:
- Small tenant “spaces” do not get a meter socket nor any wiring
- “Provisions” do not get a meter socket but they do get wiring

Group mounted switchboards

Spectra integrated switchboard solutions

Product introduction
Spectra integrated switchboard solutions save time, money and space, yet sacrifice nothing in terms of safety, performance or flexibility. You get flexibility in design and consistency in execution. Units expand or contract to accommodate your specific needs. And not only do they reflect ABB's rigorous Six Sigma quality standards, they are also built and tested in accordance with NEMA PB-2, UL 891 and the NEC. All sections and devices are UL listed and UL labeled.

Features
Spectra integrated switchboard solutions are custom designed and built to your specifications. You choose all the elements you need. Featured elements include:
- Power distribution
- Energy management systems
- Building automation systems
- Surge suppression
- Dry type transformers
- Lighting controls

Benefits
- **Save space**—Conventional electrical installations waste space. Lighting and power panels take up long stretches of wall. Transformers eat up floor space. Lighting controls and building automation have to go somewhere. Spectra integrated switchboard solutions integrate all these elements into a fraction of the area.
- **Reduce total installed costs—**The Spectra integrated switchboard solution packs virtually all your power requirements into one single integrated distribution and control system–a compact, plug-and-play line-up. This reduces installation costs while turning otherwise non-productive mechanical space into revenue-generating sales or storage space.
- **Cut installation time—**Construction schedules have never been tighter. When you're ready to install electrical equipment, you want it done now, so that you can move on to the next step. Spectra integrated switchboard solutions arrive with everything you need, and when you need it, fully pre-wired to your specifications. All you have to do is set it in place, run the incoming power and wire out the branches. Installation takes less than half the time.

Typical installation steps for Spectra integrated switchboard solution
1. Bring conduits through floor
2. Receive single units from switchboard lineup
3. Set switchboard in place (whether the room is complete or not)
4. Run conduits and wire branches

For more information refer to the following publications:

Integrated switchboard solutions	DEA-373
Integrated switchboard planning tool	DEA-486

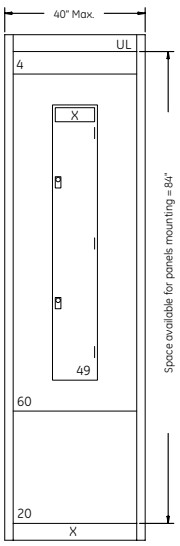
Spectra Series switchboards

Spectra integrated switchboard solutions
Lighting panels
A-Series panel type AQ, AL, AE, AD

A-Series panel type AQ, AL, AE, AD

A-Series panel height	Switchboard cover height
19	32
25	32
31	36
37	40
43	48
49	60
58	64
70	76

To determine A-Series panel height (AQ, AL and AE only), refer to EQIP Sizing 2001.
Hinged covers for lighting panels are available, ask local ABB sales office



Single A-Series panel

A-Series panel specifications

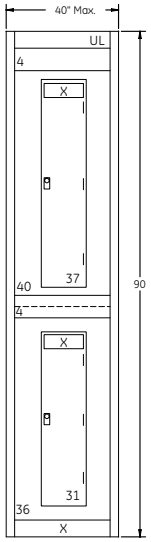
Amperage	400 Amp maximum, MCB or MLO.
Voltage	600 Vac maximum
Int. rating	65 kA max., fully or series rating.
Circuits	42 circuits maximum in each panel.
Section depth	15" to 30"
Section width	20" to 40"

Maximum panels heights in stack are 36"H and 48"H.

If 400 A panel serves as an incoming component then a 4" cover is necessary between the panel and either top (for top feed) or bottom (bottom feed)

If 600 A panel serves as an incoming component, then an 8" cover is necessary between the panel and either top (for top feed) or bottom (bottom feed)

The A-Series panels above 125A must be type M (equipment panel)



Dual A-Series panel

A-Series panel selection guide

Amps. max.	Service information	Switchboard location	Section width min.
AQ panel			
125 A	240 Vac max.	Top, bottom	20W
225 A	1 Ph, 3W.	Top, bottom	20W
400 A	3 Ph, 3W.	Top, bottom	20W
AL panel			
125 A	240 Vac max.	Top, bottom	20W
225 A	1 Ph, 3W.	Top, bottom	20W
400 A	3 Ph, 3W.	Top, Bottom	20W
AE panel			
125 A	480Y/227 Vac	Top, bottom	20W
225 A	3 Ph, 4W.	Top, bottom	20W
400 A	125/250 Vdc	Top, bottom	20W
AD panel[1]			
125 A	120/208 Vac, 3 Ph, 4W.	Full height	25W
225 A	480 Vac, 3 Ph, 3W.	Full height	25W
400 A	480Y/277 Vac, 3 Ph, 4W.	Full height	25W

[1] Availability limited, ask local ABB sales office
600 A available, ask local ABB sales office

Spectra Series switchboards

Spectra integrated switchboard solutions
Transformers

Transformer specifications

Type	3 Phase, 15-225 kVA high-efficiency
Windings	Copper or aluminum
Temp. rise	80°C, 115°C, 150°C
Category	Standard
Shield	No shield or electrostatic-shield[1]
Enclosure type	NEMA 1[2]

No transformer can be placed in a section adjacent to a 150 kVA or 225 kVA
Individual transformers can be placed at the bottom of the section only.
[1] K-rated transformer, low noise and ultra efficient are also available.
Confirm requirements with local ABB sales office
[2] N3R available up to 45 kVA max

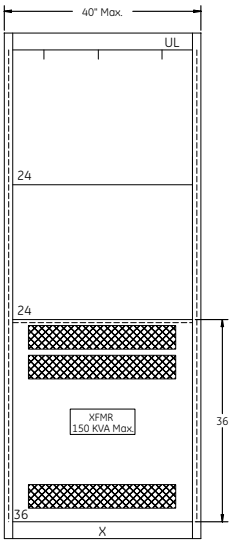
Individual mounting logic

ISB section size	kVA[3]	XF frame size[4]
30" wide X 25" deep	15-45	71, 72, 73, 31, 32, 33
35" wide X 30" deep	75-150	74, 75, 34, 35, FC77
40" wide X 30" deep	112.5-225	76, 77, 36, 37

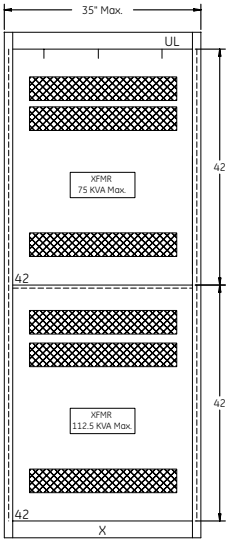
Dual mounting logic

ISB section size	Upper XF kVA[3]	Upper XF kVA[3]	XF frame size[4]
30" wide X 25" deep	15-45	15-45	71, 72, 73, 31, 32, 33
35" wide X 30" deep	45-112.5	15-75	74, 75, 34, 35
40" wide X 30" deep	112.5	15-75	76, 3

[3] kVA rangle overlaps due to temp rise, confirm requirements with Speedi or in Section 10 of the BuyLog
[4] Refer to Section 10 of the BuyLog or Speedi for more information



Individual transformer



Dual transformer

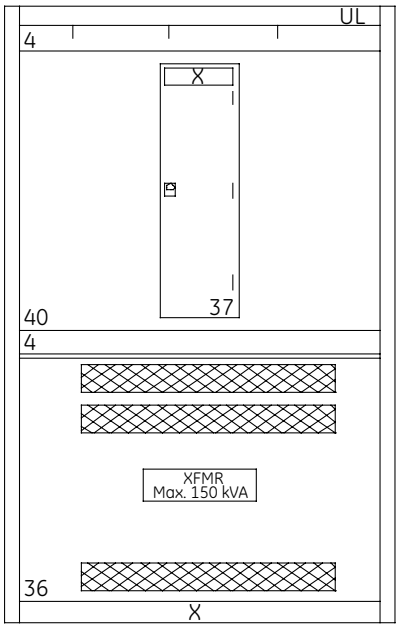
Spectra Series switchboards

Spectra integrated switchboard solutions
Stacking lighting panels with transformer

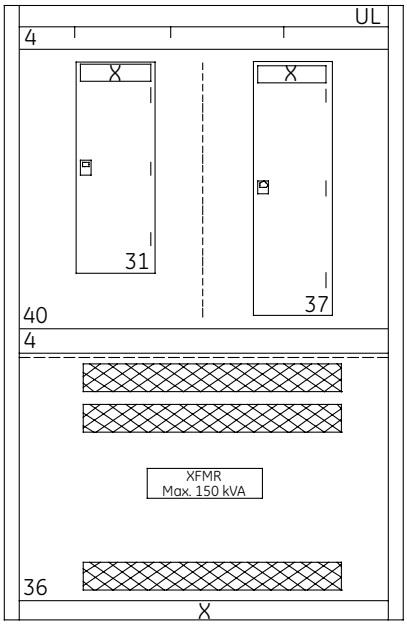
Product description

Panel type	AQ, AL, AE
Panel height	37"H with MCB
Transformer type	High-efficiency, 3 phase, 15 - 150 kVA
Section size	In individual mounting, section depth and width depend on the transformer. In double mounting, minimum section width is 40W. Section depth depends on the transformer.

Transformers can be placed at the bottom of the section only.
Contact local ABB sales office for dual mounted panels with different voltages.



A-Series single mounting and transformer



A-Series double mounting and transformer

Spectra Series switchboards

Spectra integrated switchboard solutions
Individual circuit breakers

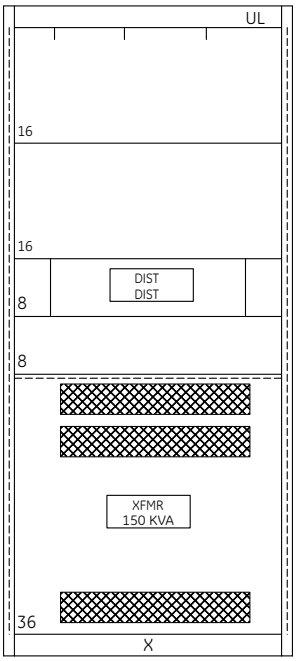
Circuit breaker specifications

Type	Spectra RMS SE Spectra RMS SF
Ampere rating	SE 15-150 SF 70-250
System	3Ph, 3W 3Ph, 4W
Voltage	480 V max.
Section depth	15" min.
Stack with	Transformers Lighting panels

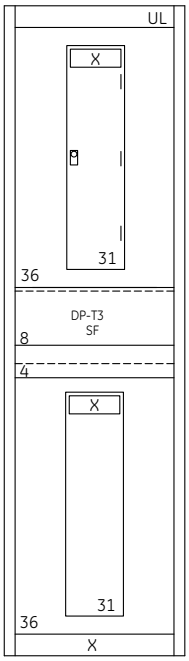
When SE/SF are mounting in stack with transformers, the section size depend on the transformers.
SE/SF individually mounted circuit breakers available, ask local ABB sales office.

Circuit breaker dimensions

Type	Ampere rating	Minimum size into the section	
		Height	Width
SE	15-70	8H	20W
SE	70-150	8H	20W
SF	70-150	8H	20W
SF	150-250	8H	25W



SE or SF with transformer



SE or SF with lighting panels

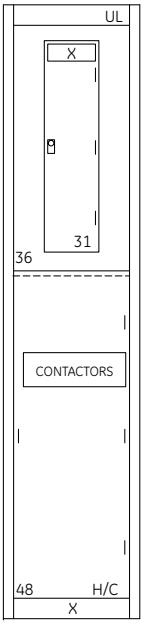
Spectra Series switchboards

Spectra integrated switchboard solutions
Lighting contactors and relays

The minimum section depth required to mount a 463, 260L, or 360ML2 is 15"D.
All other contactors require 20"D section.
Total box size includes the size of the contactor and necessary wire bending space required. Contactors are placed at the bottom of the section.

Lighting contactors

Type: contactor	Amps-contactor	Valid combinations	Section width	Section depth	Contactor module	
					Width	Height
CR360L3	30	CR360L3, L4	20-40	15 - 30	5.00	8.58
CR360L4	60	CR360L3, L4	20-40	20 - 30	5.00	10.70
CR463ML	30	CR463ML	20-40	15 - 30	6.66	10.70
CR360L5	100	CR360L5	20-40	20 - 30	7.50	17.45
CR360L6	200	CR360ML400, CR36L6, L7	20-40	25 - 30	11.65	25.74
CR360L7	300	CR360ML400, CR36L6, L7	20-40	25 - 30	12.50	34.90
CR360ML400	400	CR360ML400, CR36L6, L7	20-40	25- 30	12.25	26.90
CR160MC30	30	CR160MC30, MC60-75, MC100, MC150, MC200, MC225	20-40	20 - 30	10.00	14.30
CR160MC60-75	60-75		20-40	20 - 30	10.00	17.45
CR160MC100	100		20-40	20 - 30	10.00	19.31
CR160MC150	150		20-40	20 - 30	10.00	24.50
CR160MC200	200		20-40	20 - 30	10.00	25.70
CR160MC225	225		20-40	20 - 30	10.00	26.90
External ROCB controller	N/A	External ROCB controller	20-40	20 - 30	10	28



Section with lighting contactors and A-S panel

Size of standard plates to mount lighting contactor and relays

Height	Width
8	20
12	20
16	20
20	25
24	25
28	30
32	30
36	35
40	35
42	40
48	40

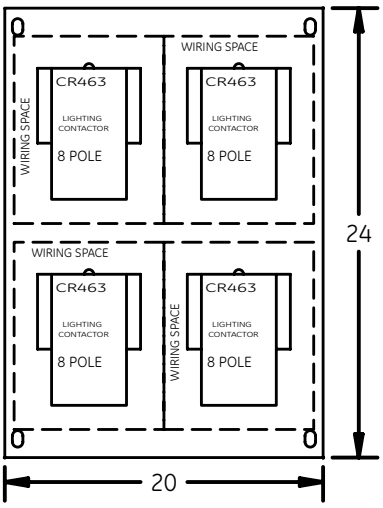


Plate with lighting contactors

Spectra power panelboard—individual section

Type	Spectra panel bolt-on
Amperage[1]	1200A max.
Voltage	600 Vac max.
Main	MLO or MCB

Contact local ABB sales office for customer metering or individually mounted TVSS.
[1] Panels available up to 2000A, ask local ABB sales office.

Additional options

- Automatic transfer switches - 200A or less

Spectra Series switchboards

ABB GenTower
Generator switchboard

Product introduction
For customers who wish to provide their facility with power assurance in the event of a utility failure or onsite generator failure, the ABB GenTower offers a stand alone, permanent solution. It provides end customers the ability to easily connect a mobile generator to feed the main power distribution system in the event of a total power failure. Because the board is permanently installed to the system, there is no need to make emergency modifications to the building or main distribution board to connect a generator during the crisis or outage. This saves the building owner both labor costs and costs associated with down time at the facility.

The GenTower disconnect can be rated up to 4000 amps and it can be connected to the existing equipment either by cabling to the lugs on the main board (provided tap connections are in place), with hard bus connection (to an approved existing ABB switchboard) or through a feeder circuit breaker in the main board. The stand-alone version comes standard with a NEMA 3R enclosure, which offers the flexibility to install it at any location that may be easily accessed by a mobile generator. It meets UL 891 requirements, and in new installs it can be included as a section within a standard Spectra Series switchboard line-up. It is a logical solution for any commercial or industrial installation where the customer needs the ability to easily connect a portable generator during a prolonged power outage, or at a time when the on site generator is out of service for maintenance.

Product features and benefits
- Provides a permanent connection point for a portable emergency generator
- Generator disconnect device ratings up to 4000 amps at 65k AIC
- Connection options include color-coded, cam-lock quick connects and traditional lugs
- Cable supports help maintain proper connection of cables to quick connects
- NEMA 3R enclosure is standard for stand-alone units, optional for integral units
- A hinged trap door allows NEMA 3R protection while cables are connected to the board
- GenTower can be cabled to main switchboard (provided tap connections are in place) or direct bus-connected in certain applications
- GenTower can be offered as a section in a new Spectra Series switchboard to provide an integral solution
- Sequence of operation clearly displayed on front cover
- Can be installed anywhere space allows, providing options to choose the best location for mobile generator access
- Reduces cost and inconvenience associated with providing temporary generator power such as: modifying the existing switchboard and/or the building, and running cable from the generator to the main board
- Reduced down time provides quantifiable productivity savings for the customer
- For safety, the generator disconnect is furnished with provisions to be key interlocked with the main circuit breaker on the typical switchboard line-up
- Voltages include 120/208V or 480/277V
- Rear access versions: 800A, 1000A, 1200A, 1600A, 2000A and 2500A
- Front access versions: 800A, 1000A, 1200A, 1600A, 2000A, 2500A, 3000A and 4000A
- Single section 30"-40"W x 45"-60"D x 90"H (approx. weight 1,115 lbs)
- Double section 75"-80"W x 40"-50"D x 90"H (approx. weight 3,400 lbs)
- Available 10" front extension

For more information refer to the following publications:

GenTower generator connection switchboards and panelboards	DEA-504

Group mounted switchboards

ABB GenTower
Generator switchboard

Rear connected, cable only models

Enclosure	Voltage	Amperage	Bus material	Description	Product number	Dimensions (inches)			Approx. weight
						W	D	H	(lbs.)
NEMA 3R	208/120	800	Cu	GQC SWBD 208/120V 800A R N3R	GQC208800R3R	30	60	90	1300
NEMA 3R	480/277	800	Cu	GQC SWBD 480/277V 800A R N3R	GQC480800R3R	30	60	90	1300
NEMA 3R	208/120	1000	Cu	GQC SWBD 208/120V 1000A R N3R	GQC208100R3R	30	60	90	1300
NEMA 3R	480/277	1000	Cu	GQC SWBD 480/277V 1000A R N3R	GQC480100R3R	30	60	90	1300
NEMA 3R	208/120	1200	Cu	GQC SWBD 208/120V 1200A R N3R	GQC208120R3R	30	60	90	1300
NEMA 3R	480/277	1200	Cu	GQC SWBD 480/277V 1200A R N3R	GQC480120R3R	30	60	90	1300
NEMA 3R	208/120	1600	Cu	GQC SWBD 208/120V 1600A R N3R	GQC208160R3R	30	60	90	1300
NEMA 3R	480/277	1600	Cu	GQC SWBD 480/277V 1600A R N3R	GQC480160R3R	30	60	90	1300
NEMA 3R	208/120	2000	Cu	GQC SWBD 208/120V 2000A R N3R	GQC208200R3R	30	60	90	1525
NEMA 3R	480/277	2000	Cu	GQC SWBD 480/277V 2000A R N3R	GQC480200R3R	30	60	90	1525
NEMA 3R	208/120	2500	Cu	GQC SWBD 208/120V 2500A R N3R	GQC208250R3R	40	60	90	1775
NEMA 3R	480/277	2500	Cu	GQC SWBD 480/277V 2500A R N3R	GQC480250R3R	40	60	90	1775

Front connected, cable only models

Enclosure	Voltage	Amperage	Bus material	Description	Product number	Dimensions (inches)			Approx. weight
						W	D	H	(lbs.)
NEMA 3R	480/277	800	Cu	GQC SWBD 480/277V 800A F N3R	GQC480800F3R	30	45	90	1200
NEMA 3R	208/120	800	Cu	GQC SWBD 208/120V 800A F N3R	GQC208800F3R	30	45	90	1200
NEMA 3R	480/277	1000	Cu	GQC SWBD 480/277V 1000A F N3R	GQC480100F3R	30	45	90	1200
NEMA 3R	208/120	1000	Cu	GQC SWBD 208/120V 1000A F N3R	GQC208100F3R	30	45	90	1200
NEMA 3R	480/277	1200	Cu	GQC SWBD 480/277V 1200A F N3R	GQC480120F3R	30	45	90	1200
NEMA 3R	208/120	1200	Cu	GQC SWBD 208/120V 1200A F N3R	GQC208120F3R	30	40	90	1200
NEMA 3R	480/277	1600	Cu	GQC SWBD 480/277V 1600A F N3R	GQC480160F3R	30	40	90	1200
NEMA 3R	208/120	1600	Cu	GQC SWBD 208/120V 1600A F N3R	GQC208160F3R	30	50	90	1200
NEMA 3R	480/277	2000	Cu	GQC SWBD 480/277V 2000A F N3R	GQC480200F3R	30	45	90	1424
NEMA 3R	208/120	2000	Cu	GQC SWBD 208/120V 2000A F N3R	GQC208200F3R	30	45	90	1424
NEMA 3R	480/277	2500	Cu	GQC SWBD 480/277V 2500A F N3R	GQC480250F3R	75	45	90	3656
NEMA 3R	208/120	2500	Cu	GQC SWBD 208/120V 2500A F N3R	GQC208250F3R	75	45	90	3656
NEMA 3R	480/277	3000	Cu	GQC SWBD 480/277V 3000A F N3R	GQC480300F3R	75	45	90	3701
NEMA 3R	208/120	3000	Cu	GQC SWBD 208/120V 3000A F N3R	GQC208300F3R	75	40	90	3701
NEMA 3R	480/277	4000	Cu	GQC SWBD 480/277V 4000A F N3R	GQC480400F3R	80	40	90	3945
NEMA 3R	208/120	4000	Cu	GQC SWBD 208/120V 4000A F N3R	GQC208400F3R	80	50	90	3945

Group mounted switchboards

Merchandised and metering
Jiffy II-Spectra
EUSERC West Coast utility applications

The ABB Jiffy II™ service entrance switchboard is designed especially to address the requirements of your small project needs. The compact unit combines the electrical distribution panel, the main service disconnect and the utility metering compartment into one space-saving unit, delivering maximum installation opportunities.

The switchboard is floor mounted and rated up to a maximum 1000A, 100kAIC @ 480V. At 25" deep, the electrical distribution board easily fits into the tightest areas. A full line of field installable digital solid state electronic trip molded-case circuit breakers is also available. With a combination of superior features and options, the ABB Jiffy II not only meets your space saving needs, but also offers total flexibility in design to meet the requirements of the project.

Primary features

- Switchboard styled NEMA Type 1 indoor or NEMA 3R enclosure
- 1000A – heat rated bus max. 100kAIC @ 480V max.
- Ground fault protection optional
- Left or right hand pull sections
- Top or bottom feed
- UL, EUSERC Approved
- 14X, 18X, 23X of device space for feeder circuit breakers, bolt-on construction
- Seismic IBC Zone 4, CBC Zone 4, UBC Zone 4
- Heat rated copper bus
- Accepts aluminum or copper incoming cable
- 35"W bolt-on (45"W plug-in) x 90"H x 25"D (main only)
- 35"W x 90"H x 25"D (bussed pull section)
- Add 11" depth for NEMA 3R

Group mounted switchboards

Merchandised and metering
Jiffy II-Spectra
EUSERC West Coast utility applications

Instructions
- Drawings included (feed to right STD)
- Be sure utility kit size matches distribution section
- Fused switch distribution section 45"W
- Fused distribution service disconnect only
- No fusible main device available
- 23X Spectra interior available for distribution
- For meter main applications use suffix MM; includes add on lug kit

Example: JF63BCW-MM Jiffy™ switchboard 600A bottom feed, copper bus, NEMA 3R, 600A fused switch only, no distribution

Fused switch MLO service disconnect (6 handle rule) 45"W

Enclosure	Incoming	Max. Amp	Service	Bus material	Product number
NEMA Type 1	Top feed	400 A	3PH, 4W	Cu	JF43TC
NEMA Type 1	Top feed	600 A	3PH, 4W	Cu	JF63TC
NEMA Type 1	Top feed	800 A	3PH, 4W	Cu	JF83TC
NEMA Type 1	Bottom feed pull section included	400 A	3PH, 4W	Cu	JF43BC
NEMA Type 1	Bottom feed pull section included	600 A	3PH, 4W	Cu	JF63BC
NEMA Type 1	Bottom feed pull section included	800 A	3PH, 4W	Cu	JF83BC
NEMA Type 1	Bottom feed pull section included	1000 A	3PH, 4W	Cu	JF103BC
NEMA Type 3R	Bottom feed pull section included	400 A	3PH, 4W	Cu	JF43BCW
NEMA Type 3R	Bottom feed pull section included	600 A	3PH, 4W	Cu	JF63BCW
NEMA Type 3R	Bottom feed pull section included	800 A	3PH, 4W	Cu	JF83BCW
NEMA Type 3R	Bottom feed pull section included	1000 A	3PH, 4W	Cu	JF103BCW
NEMA Type 3R	Top feed N3R includes separate utility landing section	400 A	3PH, 4W	Cu	JF43TCW
NEMA Type 3R	Top feed N3R includes separate utility landing section	600 A	3PH, 4W	Cu	JF63TCW
NEMA Type 3R	Top feed N3R includes separate utility landing section	800 A	3PH, 4W	Cu	JF83TCW
NEMA Type 3R	Top feed N3R includes separate utility landing section	1000 A	3PH, 4W	Cu	N/A

Group mounted switchboards

Merchandised and metering
Jiffy II-Spectra
EUSERC West Coast utility applications

Instructions
- Drawings included (feed to right STD)
- Be sure utility kit size matches distribution section
- Circuit breaker distribution section 35"W
- Circuit breaker distribution service disconnect only
- Main device available on next page
- 18X Spectra interior available for distribution

Circuit breaker MLO service disconnect (6 handle rule) 35"W

Enclosure	Incoming	Max. Amp	Service	Bus material	Product number
NEMA Type 1	Top feed	400 A	3PH, 4W	Cu	JB43TC
NEMA Type 1	Top feed	600 A	3PH, 4W	Cu	JB63TC
NEMA Type 1	Top feed	800 A	3PH, 4W	Cu	JB83TC
NEMA Type 1	Bottom feed pull section included	400 A	3PH, 4W	Cu	JB43BC
NEMA Type 1	Bottom feed pull section included	600 A	3PH, 4W	Cu	JB63BC
NEMA Type 1	Bottom feed pull section included	800 A	3PH, 4W	Cu	JB83BC
NEMA Type 1	Bottom feed pull section included	1000 A	3PH, 4W	Cu	JB103BC
NEMA Type 3R	Bottom feed pull section included	400 A	3PH, 4W	Cu	JB43BCW
NEMA Type 3R	Bottom feed pull section included	600 A	3PH, 4W	Cu	JB63BCW
NEMA Type 3R	Bottom feed pull section included	800 A	3PH, 4W	Cu	JB83BCW
NEMA Type 3R	Bottom feed pull section included	1000 A	3PH, 4W	Cu	JB103BCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	400 A	3PH, 4W	Cu	JB43TCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	600 A	3PH, 4W	Cu	JB63TCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	800 A	3PH, 4W	Cu	JB83TCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	1000 A	3PH, 4W	Cu	N/A

Instructions
- Drawings included (feed to right STD)
- Be sure utility kit size matches distribution section
- K frame MCB included
- Circuit breaker distribution section 35"W
- Main device included in section
- 13X Spectra interior available for distribution below main
- For meter main applications use suffix MM; includes add on lug kit

Example: JMB63BCW-MM Jiffy switchboard 600A bottom feed, copper bus, NEMA 3R, 600A MCB only, no distribution

Main circuit breaker with circuit breaker distribution 35"W

Enclosure	Incoming	Max. Amp	Service	Bus material	Product number
NEMA Type 1	Top feed	400 A	3PH, 4W	Cu	JMB43TC
NEMA Type 1	Top feed	600 A	3PH, 4W	Cu	JMB63TC
NEMA Type 1	Top feed	800 A	3PH, 4W	Cu	JMB83TC
NEMA Type 1	Bottom feed pull section included	400 A	3PH, 4W	Cu	JMB43BC
NEMA Type 1	Bottom feed pull section included	600 A	3PH, 4W	Cu	JMB63BC
NEMA Type 1	Bottom feed pull section included	800 A	3PH, 4W	Cu	JMB83BC
NEMA Type 1	Bottom feed pull section included	1000 A	3PH, 4W	Cu	JMB103BC
NEMA Type 3R	Bottom feed pull section included	400 A	3PH, 4W	Cu	JMB43BCW
NEMA Type 3R	Bottom feed pull section included	600 A	3PH, 4W	Cu	JMB63BCW
NEMA Type 3R	Bottom feed pull section included	800 A	3PH, 4W	Cu	JMB83BCW
NEMA Type 3R	Bottom feed pull section included	1000 A	3PH, 4W	Cu	JMB103BCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	400 A	3PH, 4W	Cu	JMB43TCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	600 A	3PH, 4W	Cu	JMB63TCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	800 A	3PH, 4W	Cu	JMB83TCW
NEMA Type 3R	Top feed NEMA 3R includes separate utility landing section	1000 A	3PH, 4W	Cu	N/A

Group mounted switchboards

Merchandised and metering
Jiffy II-Spectra
EUSERC West Coast utility applications
Utility kits

Utility kits include meter door, socket and lugs.

Three-phase circuit breaker width

Utility	Voltage	Phase	Door width	Product number
Arizona Public Service	120/208V or 277/480V	3P4W	35	J335APS
LADWP	120/208V or 277/480V	3P4W	35	J335LADWP
Nevada Power	120/208V or 277/480V	3P4W	35	J335NP
Pacific Gas & Electric	120/208V or 277/480V	3P4W	35	J335PG&E
Portland GEN Electric	120/208V or 277/480V	3P4W	35	J335POGE
Puget Sound Energy	120/208V or 277/480V	3P4W	35	J335PSE
Sacramento Municipal	120/208V or 277/480V	3P4W	35	J335SME
Salt River Project	120/208V or 277/480V	3P4W	35	J335SRP
San Diego Gas & Electric	120/208V or 277/480V	3P4W	35	J335SDG&E
Seattle City Light	120/208V or 277/480V	3P4W	35	J335SCL
Southern CAL Edison	120/208V or 277/480V	3P4W	35	J335SCE
Tucson Elect Power	120/208V or 277/480V	3P4W	35	J335TEP

Three-phase fusible width

Utility	Voltage	Phase	Door width	Product number
Arizona Public Service	120/208V or 277/480V	3P4W	45	J345APS
LADWP	120/208V or 277/480V	3P4W	45	J345LADWP
Nevada Power	120/208V or 277/480V	3P4W	45	J345NP
Pacific Gas & Electric	120/208V or 277/480V	3P4W	45	J345PG&E
Portland GEN Electric	120/208V or 277/480V	3P4W	45	J345POGE
Puget Sound Energy	120/208V or 277/480V	3P4W	45	J345PSE
Sacramento Municipal	120/208V or 277/480V	3P4W	45	J345SM
Salt River Project	120/208V or 277/480V	3P4W	45	J345SRP
San Diego Gas & Electric	120/208V or 277/480V	3P4W	45	J345SDG&E
Seattle City Light	120/208V or 277/480V	3P4W	45	J345SCL
Southern CAL Edison	120/208V or 277/480V	3P4W	45	J345SCE
Tucson Elect Power	120/208V or 277/480V	3P4W	45	J345TEP

Group mounted switchboards

Merchandised and metering
Jiffy II-Spectra
EUSERC West Coast utility applications
Utility kits

Utility kits include meter door, socket and lugs.

Single-phase circuit breaker width

Utility	Voltage	Phase	Door width	Product number
Arizona Public Service	120/240V	1P3W	35	J135APS
LADWP	120/240V	1P3W	35	J135LADWP
Nevada Power	120/240V	1P3W	35	J135NP
Pacific Gas & Electric	120/240V	1P3W	35	J135PG&E
Portland GEN Electric	120/240V	1P3W	35	J135POGE
Puget Sound Energy	120/240V	1P3W	35	J135PSE
Sacramento Municipal	120/240V	1P3W	35	J135SM
Salt River Project	120/240V	1P3W	35	J135SRP
San Diego Gas & Electric	120/240V	1P3W	35	J135SDG&E
Seattle City Light	120/240V	1P3W	35	J135SCL
Southern CAL Edison	120/240V	1P3W	35	J135SCE
Tucson Elect Power	120/240V	1P3W	35	J135TEP

Single-phase fusible width

Utility	Voltage	Phase	Door width	Product number
Arizona Public Service	120/240V	1P3W	45	J145APS
LADWP	120/240V	1P3W	45	J145LADWP
Nevada Power	120/240V	1P3W	45	J145NP
Pacific Gas & Electric	120/240V	1P3W	45	J145PG&E
Portland GEN Electric	120/240V	1P3W	45	J145POGE
Puget Sound Energy	120/240V	1P3W	45	J145PSE
Sacramento Municipal	120/240V	1P3W	45	J145SM
Salt River Project	120/240V	1P3W	45	J145SRP
San Diego Gas & Electric	120/240V	1P3W	45	J145SDG&E
Seattle City Light	120/240V	1P3W	45	J145SCL
Southern CAL Edison	120/240V	1P3W	45	J145SCE
Tucson Elect Power	120/240V	1P3W	45	J145TEP

Group mounted switchboards
Jiffy III switchboards

Product introduction
The ABB Jiffy III utility service entrance switchboard is designed especially to address the Canadian market. The compact unit combines the electrical distribution panel, the main service disconnect and the utility metering compartment into one space-saving unit, delivering maximum installation opportunities.

The switchboard is floor mounted and rated up to a maximum 1200A, 42 kAIC @ 600V. At 15" (381 mm) deep, the electrical distribution board easily fits into the tightest areas where space is typically limited. The Jiffy III is UL and cUL[1] approved and meets the seismic requirements of IBC Zone 4 and CBC Zone 4.

Designed and approved specifically for the Canadian Utility Market[2], the Jiffy III is available with mains rated at 800A, 1000A and 1200A; 80% and 100% rated (with the exception of 1200A, which is 80% rated only); and with or without ground fault protection. A full line of field installable digital solid state electronic trip molded-case circuit breakers is also available. With a combination of superior features and options, the ABB Jiffy III utility service entrance switchboard not only meets your space-saving needs, but also offers total flexibility in design to meet the requirements of the project.

Features
- Switchboard styled, Type 1 indoor enclosure with driphood (NEMA 1)
- 1200A–heat rated bus max., 65kAIC @ 600V max.
- 80% and 100% rated main (1200A rated at 80% only)
- Ground fault protection optional
- Left or right hand pull sections–dependent on region
- Top or bottom feed main–dependent on region
- UL, cUL approved
- 23X of device space for feeder circuit breakers, bolt-on construction
- Seismic IBC Zone 4, CBC Zone 4, UBC Zone 4
- Heat rated aluminum bus bar standard with copper main device straps
- Accepts aluminum or copper incoming cable
- 40" W (1016 mm) x 90" H (2286 mm) x 15" D (381 mm) (main only)
- 25" W (635 mm) x 90" H (2286 mm) x 15" D (381 mm) (bussed pull section)
- 15" W (381 mm) x 90" H (2286 mm) x 15" D (381 mm) (blank pull section)
- Branch feed–MCCB 15-1200A

[1] cUL certified to meet CSA 22.2 No. 31.
[2] Non-BC Hydro Utilities. Contact your local ABB sales engineer for your utility requirements.

Group mounted switchboards
Jiffy III switchboards

Switchboard with bussed section[1]–left to right feed

Max. Amp	Main circuit breaker rating	Ground fault protection	Product number
800	80%	No	ACJ208080LR
800	80%	Yes	ACJ208080GLR
800	100%	No	ACJ208100LR
800	100%	Yes	ACJ208100GLR
1000	100%	No	ACJ210100LR
1000	100%	Yes	ACJ210100GLR
1200	80%	No	ACJ212080LR
1200	80%	Yes	ACJ212080GLR

Switchboard with bussed section[1]– right to left feed

Max. Amp	Main circuit breaker rating	Ground fault protection	Product number
800	80%	No	ACJ208080RL
800	80%	Yes	ACJ208080GRL
800	100%	No	ACJ208100RL
800	100%	Yes	ACJ208100GRL
1000	100%	No	ACJ210100RL
1000	100%	Yes	ACJ210100GRL
1200	80%	No	ACJ212080RL
1200	80%	Yes	ACJ212080GRL

[1] Bus material– aluminum with copper main device straps. Bussed pull sections are not convertible from left to right or right to left. Main circuit breaker included in section.

Switchboard without bussed pull section[1]– top feed

Max. Amp	Main circuit breaker rating	Ground fault protection	Product number
800	80%	No	ACJ108080T
800	80%	Yes	ACJ108080GT
800	100%	No	ACJ108100T
800	100%	Yes	ACJ108100GT
1000	100%	No	ACJ110100T
1000	100%	Yes	ACJ110100GT
1200	80%	No	ACJ112080T
1200	80%	Yes	ACJ112080GT

Switchboard without bussed pull section[1]– bottom feed

Max. Amp	Main circuit breaker rating	Ground fault protection	Product number
800	80%	No	ACJ108080B
800	80%	Yes	ACJ108080GB
800	100%	No	ACJ108100B
800	100%	Yes	ACJ108100GB
1000	100%	No	ACJ110100B
1000	100%	Yes	ACJ110100GB
1200	80%	No	ACJ112080B
1200	80%	Yes	ACJ112080GB

Group mounted switchboards
Jiffy III switchboards

Specifications

Product capability/specification	Jiffy III switchboard	Additional information
Enclosure type	NEMA 1	NEMA 1 with driphood
Section dimensions	40" W x 90" H x 15" D (1016 mm x 2286 mm x 381 mm) (main only) 25" W x 90" H x 15" D (635 mm x 2286 mm x 381 mm) (bussed pull section) 15" W x 90" H x 15" D (381 mm x 2286 mm x 381 mm) (blank pull section)	
Voltage	600V Max.	
Amperage	1200A - heat rated	
Bus bar	Aluminum with copper main device straps	
80% rating	800A to 1200A	
100% rating	800A to 1000A	
Standards	cUL, NEMA, NEC, PB II	
Seismic rating	IBC Zone 4, CBC Zone 4, UBC Zone 4	
Entry	Cable or bussed pull section	
Top or bottom feed	Top and bottom feed	
Lug type	Mechanical aluminum	
Incoming cable	Copper or aluminum	
Max. bus kA rating	65kAIC	
Neutral rating	100% - heat rated	
Main devices	1200A Manually operated Stationary	
Main device accessories	UV[2], ST[2], aux contact, bell alarm	Field installed
Utility CT provision	Bar type CT	
Utility PT provision	Yes	
Branch/Feeder switches	MCCB 15 – 1200A	TEY, TED, TED6CL, THED, TEDL, SFHA, SGLA, SFDA, SFHA, SKHA, SKLA Field installed
Branch accessories	UV[1], ST[1], aux contact, bell alarm	Field installed
Branch mounting	23x bolt-on construction	
Delivery time	2 weeks to ship - 3 weeks on-site	
Accessories available	Jiffy and Spectra bolt-on device mounting hardware Full filler plates for Jiffy and Spectra Jiffy and Spectra bolt-on device filler plate kit Padlocking devices for Jiffy and Spectra Load lugs	

[1] Shunt trip or UV cannot be installed in same circuit breakers.