BROCHURE

RELIAGEAR® SB COMMERCIAL METERING SWITCHBOARDS

ENGINEERED
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POWER WHAT COUNTS

ReliaGear® SB commercial metering switchboards from ABB offer simplified installations, expanded capabilities and fast lead times to meet modern mixed-use commercial multi-metering specifications. Commercial metering switchboards with a configured-to-order layout offer fast, smart, safe and reliable designs — in small and large tenant applications.

Features

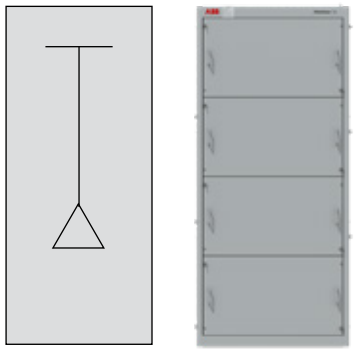
- UL listed, EUSERC
- 208Y/120 V AC, 480Y/227 V AC
- 65 or 100 kAIC
- 800, 1000, 1200, 1600, 2000, 2500, 3000 or 4000 A
- ReliaGear® SB bus construction with captive splice plates
- Copper or aluminum bus
- Front access
- NEMA 1 or 3R type enclosures
  - 35" NEMA 1 depth
  - 46" NEMA 3R depth including front extension
- Space heater and SPD options available
- Ground fault protection
- Reduced energy let-through (RELT) maintenance switch
- Field kits for circuit breakers and meter sockets

Benefits

- Compliance with faster approvals and utility acceptance
- Common service voltages to standardize designs
- Offers common choice of fault currents for safer and easier coordination
- Right-size capacity of loads while accommodating growth, minimizing upgrades and downtime up to 4,000 A
- Improved installation experience with proven bus design and easy-to-connect sections — no need for special hardware
- Dependable performance under thermal and mechanical stress, enhancing reliability for longevity
- Multiple material options for performance and budgeting
- Footprint savings compared to previous generation, improving serviceability, especially in tight electrical rooms
- Enclosure choices to help protect equipment from the environment while supporting predictable space planning
- Fast cycle time

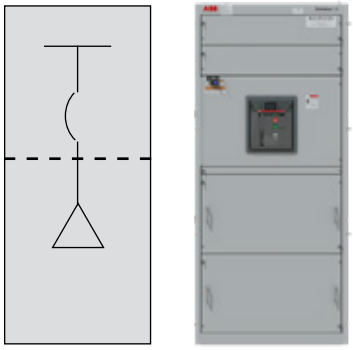
Section types

Underground pull section



- Bottom feed
- Incoming location (left, center, right)
- Cu or Al bus
- NEMA 1 or 3R

Half-height pull section with main circuit breaker



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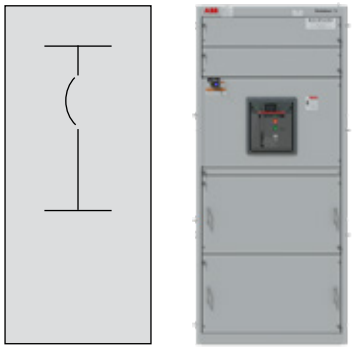
Section includes a SACE® Emax power circuit breaker

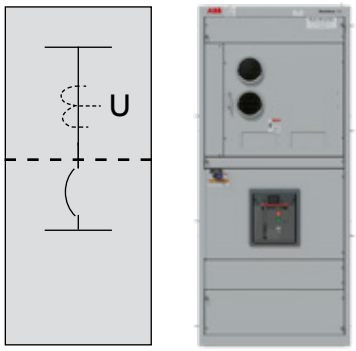
- Tmax® XT7 (800–1200 A) circuit breakers
- Emax 2 or Emax 3 circuit breakers (1200–2000 A)
- Device padlocking
- Service entrance barriers
- Reduced energy let-through (RELT) maintenance switch

Main disconnect



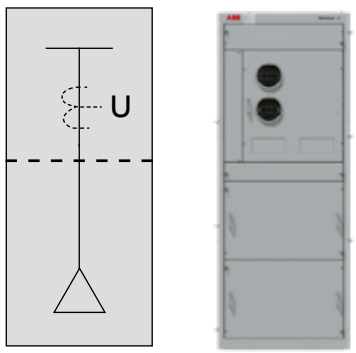
- Tmax® XT7 (800–1200 A) circuit breakers
- Emax 2 or Emax 3 circuit breakers (1200–4000 A)
- Device padlocking
- Reduced energy let-through (RELT) maintenance switch
- Equipment ground fault protection

Submain



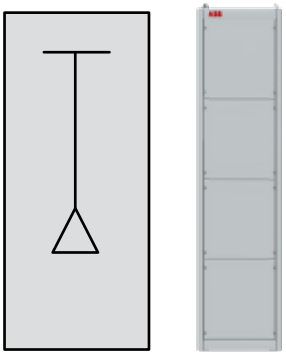
- Tmax® XT7 (800–1200 A) circuit breakers
- Emax 2 or Emax 3 circuit breakers (1200–4000 A)
- Device padlocking
- Reduced energy let-through (RELT) maintenance switch
- Equipment ground fault protection

Fire pump tap — metered



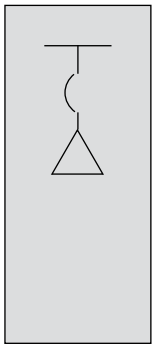
- 800 or 1000 A
- Bottom exit
- 35" width

Fire pump tap — unmetered



- 800 or 1000 A
- Bottom or top exit
- 15" width

Unmetered disconnect



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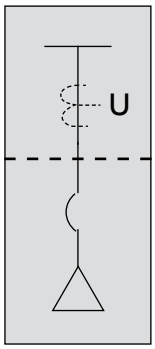
Section includes a SACE® Tmax® XT molded case circuit breaker

- Tmax® XT7 (800–1200A) circuit breakers
- Emax 2 or Emax 3 circuit breakers (1200–4000 A)
- Device padlocking
- Reduced energy let-through (RELT) maintenance switch
- Equipment ground fault protection
- Bottom exit

Distribution panel

- ReliaGear® neXT plug-in circuit breakers
- Up to 40X of mounting space per side
- Up to 4000 A
- Bottom or top exit

Large tenant metering



- Tmax® XT7 (800–1200 A) circuit breakers
- Emax 2 or Emax 3 circuit breakers (1200–4000 A)
- Device padlocking
- Reduced energy let-through (RELT) maintenance switch
- Equipment ground fault protection
- Bottom exit

Small tenant metering

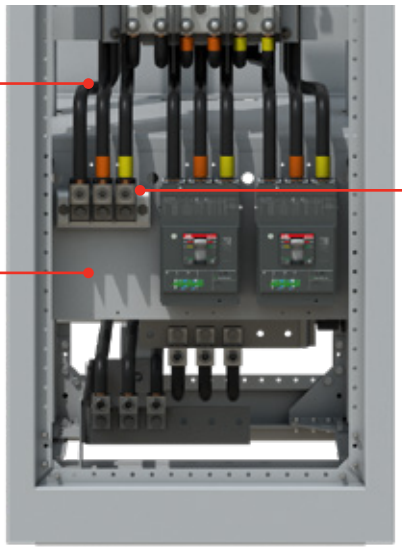
- 3-pack or 6-pack
- Hot sequence
- Tenant disconnects (Tmax® XT4) - 100 A or 200 A options
- Factory pre-wired provisions for field-installable kits for meter socket or circuit breaker additions
- Ring type sockets
- Bottom exit
- Available up to 65 kAIC

Field-installable kits

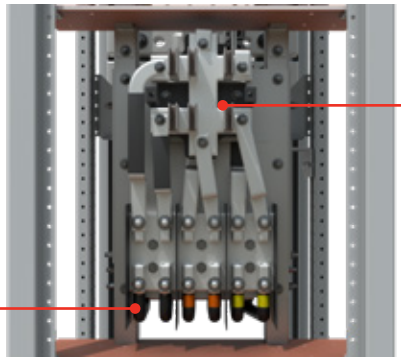
It’s possible to design ReliaGear® SB commercial metering switchboards with provisions for small tenant additions.

Two types of provisions may be selected:
- Circuit breaker space
- Meter socket space

Circuit breaker space
When a circuit breaker space is selected, the switchboard will be delivered pre-wired to a meter space with temporary termination lugs.



Meter socket space
A meter socket space offers a provision for 100 A or 200 A meter sockets as well as connection to the bus and to the breaker space.



Adding a metered small tenant using the field kits

1. Verify your commercial metering switchboard has a meter socket and a circuit breaker provision available
2. Select the meter socket kit needed (100 A or 200 A) using the **field-installable kits** table below
3. Select the circuit breaker installation kit using the part number indicated in the **field-installable kits** table below
4. Purchase the Tmax® XT4 circuit breaker to match the rating of the kit along with the voltage and the bracing of the switchboard using the **Tmax XT4 tenant circuit breakers available in stock** table below
5. Add the lug kit part number for the circuit breaker (order quantity two): **KXT4CUAL2C-3PC**

FIELD-INSTALLABLE KITS

Catalog number	Description
1SQA019816R0001	Tmax XT circuit breaker installation kit
1SQA019817R0001	200 A rated meter socket kit
1SQA019818R0001	100 A rated meter socket kit

For more information, reference: ReliaGear® SB CMM Meter Socket/Circuit Breaker Field Kit - 1SQC088013M0202

TMAX® XT4 TENANT CIRCUIT BREAKERS AVAILABLE IN STOCK

Voltage	Interrupting ratings	Socket size*	Catalog number	Description
208/120 V	65 kA	200 A	XT4NU3250EFF000XX	XT4 250 A Ekip DIP LS/I
208/120 V	65 kA	100 A	XT4NU3150EFF000XXX	XT4 150 A Ekip DIP LS/I
480/277 V	65 kA	200 A	XT4HU3250EFF000XX	XT4 250 A Ekip DIP LS/I
480/277 V	65 kA	100 A	XT4HU3150EFF000XXX	XT4 150A Ekip DIP LS/I

*To dial down the nominal current on the 250 A breaker suggested, set the DIP switch at the following:

100 A = 0.67

200 A = 0.8

For a list of the ratings available in stock, reference: Stocking Guide Section 6 — Molded case and miniature circuit breakers — ISXU000546G0201

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