ABB ELECTRIFICATION | SMART POWER

ReliaGear® SB Switchboard – EXcelerate Program

Frequently asked questions

With ReliaGear SB Switchboard – EXcelerate, you can choose from more than 5,000 configurations of simple and mid-complexity switchboards and experience lead times that are 2x faster than Engineered switchboards.

ReliaGear SB switchboard
— EXcelerate

General

1. **What does EXcelerate CTO stand for and why does it matter?**
   CTO= Configured to order. It's a way to configure equipment that can drive faster lead times and standardization thanks to the use of pre-engineered sub-assemblies. This means there are 5,000+ configurations available for customers to select in several category choices in empower. The purpose is to receive switchboards faster.

2. **What are the options available in EXcelerate switchboards? NEW**
   Limited options are available for the EXcelerate program. Choices to configure include the following: Voltage, amperage, material, rating, enclosure, feed location, incoming, distribution sizes, connection types, distribution section and utility compartments. Please refer to empower for more details.

3. **How many combinations of switchboard layouts are supported in EXcelerate switchboard?**
   5,000+ configurations are available and more are added every month.

Technical

4. **What voltages are available for EXcelerate switchboards?**
   600/347 V AC, 480/277 V AC and 208/120 V AC options.

5. **Will seismic and OSHPD ratings be included in the EXcelerate offering?**
   Yes. These can be found on the "options" tab in the EXcelerate switchboard selector in empower.

6. **What if my design requires incoming currents outside of the 1200 A–4000 A range?**
   Please use the Engineered switchboard selection in the "lineup" screen of empower to configure designs outside the EXcelerate offering. These will be Engineered to Order (ETO) and will have the current lead times associated with that offering.

7. **What main breakers are available with the EXcelerate switchboard option?**
   Emax 2 main breakers (frames 2.2, 4.2 and 6.2) and group-mounted Tmax® XT7 mains are available.

8. **What distribution functions and breaker frames are available with the EXcelerate switchboard option?**
These are the options for distribution breakers:
   - TMF — XT1
   - TMA — XT4, XT5, XT6
   - Ekip DIP (LSI) — XT2, XT4, XT5, XT6, XT7
   - Ekip DIP (LSIG) — XT4, XT5, XT6, XT7
   - Ekip Touch (LSI and LSIG) — XT7 1200 A
   - Individually mounted (Emax 2)
     - E2.2, E4.2, E6.2
     - Trip unit — Ekip Touch LSIG

9. **Are SPD (surge protective devices) ratings mentioned in kA per-phase?**
As per the SPD dropdown in empower, the dual rating shows per-phase and per-mode collectively. 125/250 per mode/phase and 200/400 per mode/phase.

10. **Can the main section be either top or bottom feed? Can the main section be connected with cable in and cable out options?**
   - The configurator will allow for top or bottom incoming. Note that this is for cable only, though, no busway. If you need a quick switchboard with busway, you can do a busway end cable tap box.
   - Yes, cable in and cable out options are available as a selection in the empower quotation tool.

11. **What specific meters can be added to EXcelerate switchboards?**
There is a choice of four ABB RGM series meters for monitoring. These include RGM2200, RGM6000, RGM6010 and RGM7000 meters with various communication protocols and parameters.

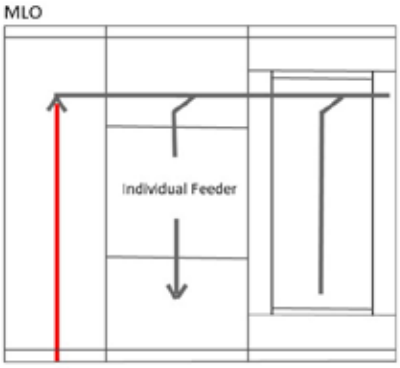
12. **Will removing the Hi-Res Engineered-to-Order step impact the quality of my switchboard design?**
No, these designs have been completed by R&D (research and development) and validated by engineering to ensure accuracy and manufacturability.

13. **Is tin-plated copper bus being considered for the EXcelerate program?**
Not at this time.

14. **What are the benefits of feeder-only applications in EXcelerate?**
Benefits include more flexibility to meet specifications, more cable bending space and faster lead times when used with EXcelerate switchboards.

15. **What is the use-case for feeder-only applications?**
Main lug only (MLO) is often used when a separate main disconnect is required or preferred. This is typically found in applications where local code requires separation of the main and distribution sections, such as universities and schools.

    Feeder-only configuration allows for group-mounted and individually mounted feeders.



16. **Can I add a bused pull section to a cable in/cable out main section instead of a blank to allow for the same entry and exit location in EXcelerate?**
No, currently, the only option to allow for the same entry and exit location on a standalone main in EXcelerate is the addition of a blank section.

17. **What if a customer ordered an EXcelerate switchboard and later wants to add a new feeder section with more circuit breakers? Is this possible?** NEW
Yes. Users can add feeder sections to be spliced in the field to their existing EXcelerate or Configured CTO switchboards, either in the right or left feed direction. In empower, select EXcelerate and feeders only under “application” on the main “lineup” screen. Then choose the “splice to existing” option under feed type.

    This option requires the original order number to proceed in empower. A maximum of six sections is allowed.

    NOTE: This option is only available for center bus CTO switchboards and will not be compatible with engineered-to-order (ETO) switchboards.

18. **What options are available for utility compartments?** NEW
Two styles of utility compartments are offered for EXcelerate and configured switchboards:
   - EUSERC
   - All others

    Refer to the empower quotation tool for a dropdown list of utility companies supported under the “utility” tab for each between 1200 A and 4000 A. This list will change periodically with more utility companies being supported over time.

19. **What is EUSERC and how does it impact EXcelerate CTO switchboards?** NEW
EUSERC stands for Electric Utility Service Equipment Requirements Committee. This committee sets standards for electrical equipment mostly on the West Coast of the US.

EUSERC in EXcelerate CTO complies with committee requirements, including hard bused switchboards and number of meter sockets, and comes in a choice of NEMA 1 or NEMA 3R enclosures.

20. **What if the EUSERC company, or other features, are not supported in EXcelerate (ie., PG&E 3000 A and 4000 A, etc.)?** NEW
For those customers requiring utility sections outside of EXcelerate scope, we recommend using the Mid Cycle or the Engineered options for utility companies not listed in the "utility" dropdown menu.

21. **Is intermix available to save on sections, footprint and price?** NEW
Yes, depending on EUSERC or all others utility type, sequence configuration and ampacity.
    - EUSERC utility
        - HOT — 1200 to 2000 A: Intermix is available with half pull + CT compartments.
        - HOT — 2500 to 4000 A: Intermix is available with full pull + utility CT compartment + main circuit breaker + accessories.
    - All other utility (bottom entry only)
        - COLD — 1200 to 4000 A: Intermix is available with utility CT compartment + main circuit breaker + accessories.
        - HOT — 1200 to 3000 A: Intermix is available with utility CT compartment + main circuit breaker + accessories.

22. **Are hot or cold sequence options available for utilities under "all others"?** NEW
Yes, depending on "all others" utility company selected. Some "all others" utilities allow for either option. Note, all EUSERC options are hot sequence only.

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Ordering

23. **Can an existing order be converted from an Engineered order into an EXcelerate switchboard order? Will the customer need to pay a cancellation fee?**
The only way to convert a current placed Engineered order into an EXcelerate order is to re-issue the order as an EXcelerate switchboard option in empower.

ABB will waive the cancellation fee if the EXcelerate order is placed before cancellation of a current Engineered switchboard order, and only if the new order will be for the same or similar number of sections.

24. **Is it possible to make any modification to an EXcelerate order, for example, to use breakers that are not in scope in small quantity?**
No, if out-of-scope features are required, the board will need to be an Engineered switchboard option. However, select accessories are available for field installation.

25. **If I start a design in EXcelerate and I need a feature only available in the Engineered switchboard option, do I have to restart my design from scratch?**
No, you can switch between the designs without losing your work; however, you will need to re-enter one section, which is the "lug type" and "cable size" found under the "incoming service disconnect" tab of empower.

26. **Can we use the ABB empower quotation tool to quote EXcelerate switchboards?**
Yes. There is an "EXcelerate switchboard" selection in the drop-down menu for the switchboard type in the "lineup" screen.

27. **Can a customer convert an Engineered switchboard quote into an EXcelerate switchboard quote?**
Yes. You can simply change the type of switchboard from Engineered to EXcelerate from the "lineup" screen. Please note, this will work properly if there are no out-of-scope selections. If out-of-scope features are selected, they will be reset.

28. **What is the planned training program for our distributors?**
The simplified design can be learned from the training material available on ELSA. There is a great training tutorial to walk distributors through the empower selection options. We also plan to visit some large distributors and train the trainers to help customers navigate the empower tool to quote and order EXcelerate switchboards.

29. **What about spare parts? Does the empower BOM (bill of materials) contain all the mechanical parts that commonly have issues on site, such as splices and brackets?**
No. We do not have a specific spare parts list at this point.

Delivery

30. **What is the lead time range for CTO EXcelerate?**
    At launch, the lead time will be 2x faster than Engineered lead times.

31. **How does the EXcelerate program differ from the On Demand and On Demand Mid Cycle?**
    - EXcelerate allows the configuration of the board and the selection of the breakers to be delivered 2x faster than Engineered.
    - On Demand includes seven SKUs with fixed BOMs (bills of materials), which cannot be modified, with a lead time of 2 weeks if all parts are in stock at the time of order.
    - On Demand Mid Cycle has the same seven configurations as the On Demand program; however, it will have a longer lead time of 10 weeks for a discount.

32. **Are EXcelerate switchboards built in Mebane, NC?**
    No, Monterrey, Mexico is the manufacturing location.

33. **Do we have a similar solution for providing easy insert and removal of the feeder breakers like the competitors?**
    An existing ReliaGear neXT — branch circuit breaker installation video on YouTube shows the installation and removal of the circuit breakers.

34. **Is there a quick video to learn about ReliaGear SB Switchboard – EXcelerate?**
    Yes, there is a ReliaGear SB Switchboard – EXcelerate video on YouTube, less than 2 minutes in duration.

35. **Where can I find more information about EXcelerate switchboards?** **NEW**
    - Switchboard ReliaGear SB | ABB US Electrification website
    - ReliaGear SB EXcelerate presentation – external

On Demand program questions

36. **For the 2000 A On Demand, do we have an option for the feeder section that will allow adding an XT7?**
    Yes, the new On Demand offering featuring Emax 2 mains has a 40-inch wide distribution section to accommodate an XT7 breaker.

37. **Will On Demand only be available for 2000 A and 4000 A switchboards? Or are any other sizes planned?**
    Currently, the On Demand program only offers 2000 A and 4000 A options. If other ampacities are needed, refer to the EXcelerate program, which offers a wider range of selections, from 1200 A to 4000 A.

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