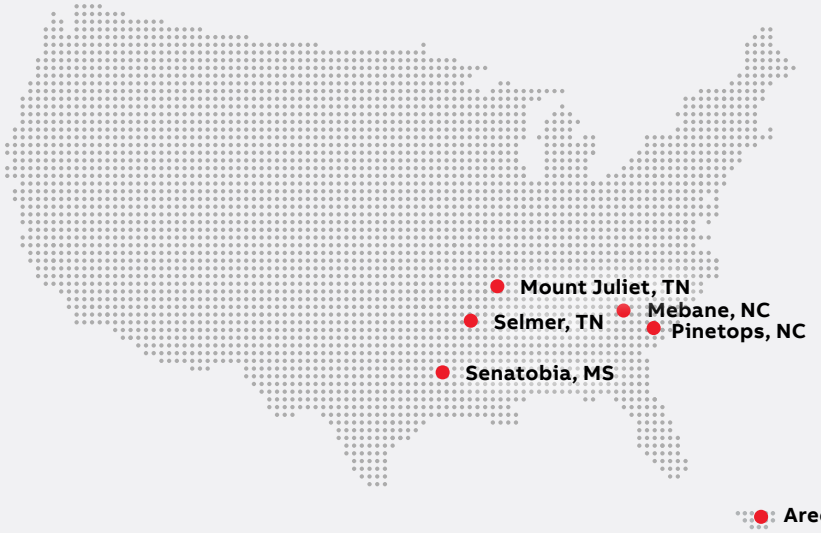
U.S. ELECTRIFICATION LINE CARD

BABA Products and Solutions

Build America, Buy America Act



What does it mean to comply with BABA?
The Build America, Buy America Act (BABA) was enacted as part of the Infrastructure Investment and Jobs Act on November 15, 2021 (Pub. L. 117-58). Its primary objective is to establish a minimum domestic content procurement preference for all federally financial assisted United States infrastructure projects utilizing funds obligated after May 14, 2022.

The BABA is implemented at 2 CFR Part 184 and requires all of the iron, steel, construction materials and manufactured products incorporated into the project are produced in the United States.

Manufactured products must be manufactured in the United States, and the cost of the components of the manufactured product that are mined, produced or manufactured in the United States is greater than 55% of the total cost of all components of the manufactured product, unless another standard that meets or exceeds this standard has been established under applicable law or regulation for determining the minimum amount of domestic content of the manufactured product. [1] Therefore, suppliers and contractors are cautioned to identify agency-specific requirements that may differ from BABA.

[1] 2 CFR 184.2(a) states the guidance "does not apply to a Buy America Preference meeting or exceeding the requirements" within the Office of Management and Budget guidance. As an example, the Federal Transit Administration's manufactured product standard is not affected by 2 CFR 184 because it exceeds those requirements.

ABB manufactures BABA-compliant manufactured products, and components manufactured in the United States, from select locations on the map. Products listed on this line card have eligible options for BABA certificates of compliance as a United States manufactured product or component.

BABA applications
Public infrastructure projects in the United States, which include, at a minimum:

- Government structures and equipment for roads, highways and bridges
- Transportation and airports
- Electrical transmission facilities and utilities
- Broadband infrastructure
- Electric vehicle (EV) charging

Benefits of BABA with ABB

- Bid on government-funded projects in the U.S.
- Access to government agency grants
- Certified BABA compliance, providing peace of mind
- Localized supply chain, reducing delays
- Supports US-based manufacturing
- Boosts local economic resilience

Product type	Picture	Offering	Location: Arecibo, PR	Mebane, NC	Mount Juliet, TN	Pinetops, NC	Selmer, TN	Senatobia, MS	Benefits
SWITCHBOARDS AND PANELBOARDS									
Switchboards		ReliaGear® SB – Configured		●					• Configured to order switchboard • More than 2,000+ configurations available • 1200 A to 4000 A, 208 or 480 V AC, and 65 or 100 kAIC • NEMA 1 or 3R enclosures • Optimized designs to reduce footprint • Revenue-grade metering is available through single-point metering at the main device • NEMA Make It American™ compliant for facility NEMA-00-11 and Low Voltage Distribution Equipment LVDE-01-03
Panelboards		ReliaGear® lighting panelboard		●					• Advanced electronic trip units within compact frames • Increased amperages and sub-feed circuit count • Thousands of configurations and optional embedded surge protection devices • Extruded split neutrals to simplify wiring and improve speed • RGM40 revenue-grade meter available • NEMA Make It American™ compliant for facility NEMA-00-11 and Low Voltage Distribution Equipment LVDE-01-03
		ReliaGear® neXT power panelboard		●					• Enhanced safety with IP20 bus stack and main lug covers • Features award-winning plug-in SACE® Tmax® XT circuit breaker assemblies designed for improved density and fast installation and replacement • Modular design allows for more flexibility to modify or upgrade panels over time • RGM40 revenue-grade power quality meter available • 100% rated circuit breakers • NEMA Make It American™ compliant for facility NEMA-00-11 and Low Voltage Distribution Equipment LVDE-01-03
CIRCUIT BREAKERS (US MANUFACTURED COMPONENT)									
Circuit breakers		Molded case circuit breakers — SACE® Tmax® XT **(qualified for use as BABA component)**						●	• The SACE® Tmax® XT molded case circuit breaker (MCCB) range helps ensure extreme performance and protection features up to 1200 amps • Designed to maximize ease of use, integration and connectivity, and are built to deliver safety, reliability and quality • Access, monitor and control information remotely, anywhere, at any time, improving efficiency and saving energy • Easy selection, one-fits-all accessories and intuitive design pave the way for smart manufacturing of panels and fast upgrades • U.S. manufactured component can be integrated into equipment to help meet Build America, Buy America (BABA) compliance requirements for the final product • BABA dedicated offering available to configure via product configurator
		Low voltage power circuit breakers — SACE® Emax 2 **(qualified for use as BABA component)**						●	• The SACE® Emax 2 all-in-one- innovation is your solution for managing low voltage distribution systems • Reduce the need for additional external components • Manage basic and advanced protection schemes • Simplify installation, accessorizing and digital upgrades • Integrate into automation and building management systems • High-accuracy metering/measuring • U.S. manufactured component can be integrated into equipment to help meet Build America, Buy America (BABA) compliance requirements for the final product • BABA dedicated offering available to configure via product configurator
ENCLOSED CIRCUIT BREAKERS AND SAFETY SWITCHES									
Enclosed circuit breakers		NEMA 1 / NEMA 3R SACE® Tmax® XT2/XT4/ XT5/XT7			●				• Provides reliable overcurrent protection and a safe means to disconnect electrical circuits in various applications, ensuring operational safety and efficiency • Available from 15 A to 1200 A • UL certified for safety and compliance • Suitable for commercial, industrial and healthcare applications • Features a configurator tool for easy customization and ordering • BABA dedicated offering available to configure via product configurator

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ENCLOSED CIRCUIT BREAKERS AND SAFETY SWITCHES									
Safety switches		Spec-Setter heavy duty	●						• Provides a quick way to disconnect and reconnect electrical loads for light applications where high performance and continuity of service are essential • 30–1200 A, 600 V AC, 600 V DC maximum • Award-winning mounting bracket for 400–600 A • Factory-installed line shield to meet NEC requirements • Short-circuit rating of 200,000 rms symmetrical amps • Direct-drive, quick-make, quick-break mechanism "snaps" • Easy-grip donut handle • Multiple enclosure options • UL listed
NEMA MOTOR CONTROLS									
NEMA motor controls		NEMA starters	●						• Size 00–6, 600 V, 24–480 V control voltage open, combo and non-combo options available • Full-voltage, reduced-voltage, non-reversing, reversing, two-speed and pump panel motor starters • NEMA Type 1, 3R, 12, 4 and 4X enclosures available for field-serviceable components • Replaceable contact tip, coils, springs, armatures • Toolless disassembly size 0–4 • Inspect and change out contacts without removing wires
		Lighting contactors	●						• Power poles latch easily onto base • Designating NO or NC is a simple matter of left or right positioning, and poles may be added at any time • 2–12 power poles • 30 amp rating • Snap-in auxiliary contacts • Field change from electrically to mechanically held • Field-adjustable power pole and control voltages
TRANSFORMERS									
Dry-type transformers		LV dry-type transformers							• BABA-compliant design: Fully designed, manufactured and assembled in the U.S. to meet Build America, Buy America (BABA) requirements • Efficiency: Meets DOE 2016 efficiency standards, ensuring lower energy losses and optimized performance • Designed and tested in accordance with CBC 2022, IBC 2019, ASCE 7.05-2016, and certified under OSHPD standards • Available from 15 kVA to 500 kVA • Voltages are 480–208Y/120 (additional voltages available upon request) • Standard NEMA 3R enclosure up to 150 kVA for indoor/outdoor use; optional available rain shield kit for units 225 kVA and higher • Offered with aluminum or copper windings to suit performance and budget needs • Order through empower quote
Instrument transformers		Current and voltage instrument transformers 0.6–34.5 kV				●			• Dry-type instrument transformers for indoor and outdoor use • Provide standard accuracy and high accuracy metering, relay protection and control power • Utility applications include use in power transformers, breakers, capacitor banks, substations, metering cabinets and pole mounting
		AccuRange® current transformers, High accuracy and extended range, 0.6–34.5 kV				●			• AccuRange current transformers deliver savings through improved accuracy metering and reduced inventory requirements • These units exceed 0.15S metering class accuracy and provide 0.15% accuracy from 1% of the nominal current through the rating factor
		Voltage transformers with ResiVolt™ technology, Very fast transient (VFT) resistant				●			• The world's first dry-type voltage transformers designed for VFT resistance • Units with ResiVolt technology offer enhanced withstand to VFT overvoltages • This results in unparalleled performance and safety in renewable energy and frequent line switching installations

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TRANSFORMERS									
		PMU (primary metering unit) 5–34.5 kV				●			• Primary metering units are designed for three-phase primary metering in pole-mounted or pad-mounted applications • They consist of medium voltage current transformers (CTs), voltage transformers (VTs) or combination transformers (CT/VTs) that have a smaller footprint and fewer connection points for easier installation • Pole-mounted PMUs are mounted on an aluminum frame • Pad-mounted PMUs are mounted inside a steel cabinet
OVERHEAD DISCONNECT SWITCHES, CUTOUTS, AND FUSES									
Overhead disconnect switches		DCD double insulator single-phase				●			• Hookstick-operated switch • Used for sectionalizing or isolating circuits on electrical distribution systems up to 38 kV
		ITD single-phase, non-loadbreak, inline tension				●			• Used for manual switching of de-energized or parallel circuits of overhead distribution lines rated 15–38 kV
		RBD single-phase bypass				●			• Provides a means for bypassing and disconnecting reclosers or voltage regulators • Allows for maintenance on equipment without service interruption
		SID (15–38 kV, 600 or 900 A) LSID, loadbreak (15.5–15/27 kV, 600 A)				●			• Single-phase disconnect on overhead distribution feeders and in outdoor distribution substations • Mounts like a standard cutout or directly on a pole • Used as a disconnect between overhead and underground lines
Overhead fused cutouts		ICX, LBU-II, NCX, EU				●			• Distribution cutouts are used on overhead distribution systems to provide overcurrent protection • Give visible indication of fuse operation and sectionalizing break points for maintenance personnel
Capacitor fuses		Outdoor: CXP, COL, CLXP Indoor: CLC, CIL				●			• Indoor and outdoor current limiting and expulsion fuses from 1.2–26.2 kV and 6–100 A
TEST SWITCHES AND ACCESSORIES									
Test switches		FT Flexitest™ switches and test accessories				●			• Test switches are designed and manufactured to allow for quick and easy multi-circuit testing of switchboard relays, meters and instruments by any conventional system • The switches can be ordered in a variety of current and voltage configurations with black or clear covers • FT switches are offered as 10-pole, 14-pole, rear extended terminals, front connected or in a rack-mount configuration • Cover options, including cover shield and slotted cover, are available to meet varied application requirements • Test accessories, such as in-service test plugs, ergonomic separate source test plugs and individual current circuit test plugs, boost testing efficiency
SWITCHGEAR									
LV switchgear		ReliaGear® LV SG		●					• Built to ANSI standards • Cutting-edge Emax 2 air circuit breakers with Ekip trip unit technology, all integrated into the proven AKD switchgear platform • Bus insulation/isolation is optional • Features an optimized footprint that fits into a smaller area for the most common configurations • E1.2 Emax frame provides a 15-inch min. four-high stack width • NEMA Make It American™ compliant for facility NEMA-00-11 and Low Voltage Distribution Equipment LVDE-01-03

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SWITCHGEAR									
MV switchgear		Advance® air-insulated metal-clad switchgear		●					• Designed and tested according to IEEE C37.20.2 • ABB's ANSI platform for 5, 15 and 27 kV metal-clad switchgear, featuring a narrow footprint • Designed with safety, reliability and durability in mind with galvanized steel construction, hem bending techniques and Delrin arc-quenching contacts • Available as digital switchgear and with SwitchgearMD™ 24x7 asset health monitoring for enhanced safety, simplicity by design and reduced operational costs • NEMA Make It American™ compliant for facility NEMA-00-11 and High Medium Voltage Distribution Equipment HMVDE-03-01
		SafeGear® air-insulated arc-resistant metal-clad switchgear 5–15 kV		●					• Arc-resistant construction maximizes protection for equipment and personnel • SafeGear HD is the "high-duty" version of SafeGear, specifically designed for interruption and arc fault ratings of 63 kA • SafeGear and SafeGear HD both provide a solution for increased worker safety with enhanced reliability and ease of use • Available as digital switchgear and with 24x7 asset health monitoring, SwitchgearMD™ • Digital switchgear option offers enhanced safety, simplicity by design and reduced operational costs • NEMA Make It American™ compliant for facility NEMA-00-11 and High Medium Voltage Distribution Equipment HMVDE-03-01
		BreakMaster™ load interrupter switchgear		●					• Metal-enclosed load interrupter switch (LIS) provides dependable, economical load switching and protection • For medium voltage circuit applications from 2.4 kV to 15 kV in 600 A or 1200 A load interrupting ratings • Used mainly as a primary or secondary disconnect switch for transformers • Variety of available configurations also make it useful for specific distribution needs • NEMA Make It American™ compliant for facility NEMA-00-11 and High Medium Voltage Distribution Equipment HMVDE-03-01
		BreakMaster™ V LIS with vacuum circuit breaker		●					• For facilities concerned with arc flash safety standards • Includes a vacuum circuit breaker instead of fuses to provide reduced arc flash incident energy levels for customers on their existing medium voltage equipment • NEMA Make It American™ compliant for facility NEMA-00-11 and High Medium Voltage Distribution Equipment HMVDE-03-01
BUSWAY									
Busway		ReliaGear® busway					●		• Combines benefits of the proven Spectra™ series busway, the sophisticated technology of the SACE® Tmax® XT circuit breaker and fused OT/ OS switch in a plug-in unit and (PTO) with SACE Tmax and Power Break® II circuit breakers • Sleek modern look • Custom designed • Modular electrical power distribution system available in both feeder and plug-in styles, up to 5000 A
DIGITAL SOLUTIONS AND SERVICES									
		Paralleling Switchgear (PSG)		●					• Multiple power sources connection: Allows the system to seamlessly connect various power sources, such as generators and utility feeds • Synchronization: Before connecting multiple sources, it's crucial to synchronize their voltage, frequency and phase angle to prevent electrical system disruptions • Load sharing and control: The system intelligently distributes the load among the connected sources based on their capacity and predefined settings • Protection and isolation: Isolate faulty components to prevent cascading failures

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DIGITAL SOLUTIONS AND SERVICES									
		Substation SCADA and PMCS		●					• Optimizing power distribution, helping ensure reliable and efficient operation • Remote control and monitoring: Remote access enables real-time adjustments and responses to change conditions • Data acquisition and visualization: Collected data to be presented through intuitive graphical interfaces, facilitating quick comprehension and decision making • Alarm management: Identifying and alerting operators about abnormal conditions or potential issues • Data storage and analysis: Historical data collected can be archived and analyzed to identify trends, optimize operations and predict future maintenance needs
		Microgrid control		●					• DER monitoring and control: Allows for real-time monitoring and control of various distributed energy resources (DERs) connected to the system • Energy management and optimization: Involves balancing supply and demand, prioritizing renewable energy sources, managing energy storage and minimizing energy costs • Grid connection and islanding: Ability to operate in two modes; connected to the main grid or in "island mode" (operating independently) • Load sharing and control: Ensures optimal utilization of DERs, prevents overloading and maintains hospital, nursing, office and clinic system stability to make sure that reliable electrical equipment is available at all times

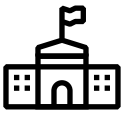
Additional resources

All BABA projects including the listed products and solutions are subject to review by the complex proposal team.

Certificate of compliance*

ABB in the United States website
https://electrification.us.abb.com/abb-america

*Contact ABB Customer Service to obtain certificate of compliance information.
**BABA scope subject to change on products. Contact your ABB representative for the latest offerings.



Government resources

- Made in America
  www.madeinamerica.gov
- NEMA Make it American™
  https://www.makeitelectric.org/nema-programs/make-it-american/
- Federal Register 88 FR 57787, Aug. 23, 2023 - Office of Management and Budget, Guidance for Grants and Agreements
  https://www.federalregister.gov/documents/2023/08/23/2023-17724/guidance-for-grants-and-agreements#page-57787

ABB resources

- Press release — NEMA Congratulates ABB for Make It American™ Certification
- Factory overview — Mebane, NC
- Factory overview — Senatobia, MS
- Factory video — Senatobia, MS
- Mission to Zero factory video — Senatobia, MS
- Factory overview — Selmer, TN
- Factory video — Selmer, TN
- Factory overview — Mount Juliet, TN
- Factory video — Mount Juliet, TN
- Factory overview — Pinetops, NC
- Factory video — Pinetops, NC
- Factory overview — Arecibo, PR

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