



















# The Best of Both: ABB and GE Industrial Solutions

Best in class source-to-socket portfolio of industry leading technologies

Product	Range	Key options	Did you know?
 <b>Substation transformer</b>	<ul style="list-style-type: none"> <li>Up to 1300MVA</li> <li>Primary voltage up to 765 kV</li> </ul>	<ul style="list-style-type: none"> <li>ABB Ability™ option to equip with digital capabilities. Cloud computing and analytics to improve reliability &amp; efficiency</li> </ul>	<ul style="list-style-type: none"> <li>R-Mag™ breaker (15-27kV, up to 3700A) with manual trip lever (69 function) compliments offering for industrial customers</li> </ul>
 <b>BreakMaster™ fused load interrupter switch (LIS)</b>	<ul style="list-style-type: none"> <li>2.4kV to 15kV (27kV soon)</li> <li>600A and 1200A ratings</li> <li>41kA and 61kA short circuit</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1, 2 or 3R enclosure</li> <li>Single, duplex, source selector, ATS</li> <li>Top or bottom entry/exit</li> <li>20" or 35" wide incoming cable section</li> </ul>	<ul style="list-style-type: none"> <li>Standard single is 35"W x 50"D</li> <li>Includes oversized viewing window for verification of switch position</li> <li>Made in Monterrey, MX since 2001</li> </ul>
 <b>Advance™, ReliaGear™, SafeGear™ air insulated primary switchgear</b> (gas insulated also available)	<ul style="list-style-type: none"> <li>5kV, 15kV, 27kV</li> <li>2000A or 4000A main bus</li> <li>25kA to 63kA short circuit</li> </ul>	<ul style="list-style-type: none"> <li>Arc resistant type 2, 2B, 2BC</li> <li>Breaker actuation: spring (ADVAC) or magnetic (AMVAC, 5-year warranty)</li> <li>Relion™ relay family</li> </ul>	<ul style="list-style-type: none"> <li>Digital switchgear: Level 1-3 options</li> <li>Lvl 1: Sensors replace CTs and PTs</li> <li>Lvl 2: Enet comms between relays</li> <li>Lvl 3: Merging units, fiber, flexibility</li> </ul>
 <b>Secondary substation (SST) or padmount transformer</b>	<ul style="list-style-type: none"> <li>45 to 3000kVA (padmount)</li> <li>112.5 to 32,000kVA (SST)</li> <li>Up to 34.5 kV/150 kV BIL (padmount)</li> </ul>	<ul style="list-style-type: none"> <li>Temperature rise: 80, 115 or 150°C</li> <li>Dry type: VPI ventilated or Cast Coil</li> <li>SST: AA (ambient air) or AA/FA (forced air)</li> <li>Copper or aluminum windings</li> </ul>	<ul style="list-style-type: none"> <li>Padmount made in Jefferson City, MO</li> <li>SST units made in Bland, VA</li> <li>New Transient Voltage Resistant™ Transformers (TVRT™)</li> </ul>
 <b>Metal enclosed capacitor bank</b> (open rack and pole-mounted also available)	<ul style="list-style-type: none"> <li>1 to 38kV</li> <li>Up to 38 Mvar</li> <li>Up to 50kA short circuit</li> <li>Up to 200 kV BIL</li> </ul>	<ul style="list-style-type: none"> <li>Indoor or outdoor</li> <li>Fixed, switched, single or multistep</li> <li>Filtered or unfiltered</li> </ul>	<ul style="list-style-type: none"> <li>Passive harmonic filters increase power factor, improve stability, lower network losses</li> <li>Active filters also available</li> </ul>
 <b>LimitAmp™ and SafeGear™ medium voltage motor control</b>	<ul style="list-style-type: none"> <li>Up to 7.2kV</li> <li>Main bus 1200A, 2000A, 3000A</li> <li>400A, 720A, 800A contactors</li> <li>50kA short circuit</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1, 1A, 12 or 3R enclosure</li> <li>Control: RVNR, FVR, RVAT, RVSS</li> <li>Arc resistant type 2B (SafeGear™)</li> <li>One-high or two-high</li> </ul>	<ul style="list-style-type: none"> <li>Front access (back-to-back allowed) on 1200A &amp; 2000A</li> <li>Disconnect switch w/viewing window</li> <li>Can be 30"W x 68"D or 36"W x 42"D</li> </ul>
 <b>AKD-20™ low voltage switchgear</b>	<ul style="list-style-type: none"> <li>Up to 8000A horizontal bus</li> <li>1200, 2000, 3600, 6000A bkrs</li> <li>Up to 150kAIC at 480V</li> <li>Up to 100kAIC at 575V</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1, 3R enclosure</li> <li>3-wire or 4-wire with neutral</li> <li>Arc resistant (plenum or plenum less)</li> <li>Reduced Energy Let-Through (RELT)</li> </ul>	<ul style="list-style-type: none"> <li>UL-1558 equipment (30 cycle withstand) and UL-1066 breakers</li> <li>Entellisys® for digital switchgear</li> <li>Heavy industrial application</li> </ul>
 <b>Spectra™ series low voltage busway</b>	<ul style="list-style-type: none"> <li>Aluminum: 225A to 4000A</li> <li>Copper: 225A to 6000A</li> <li>Bus plug MCCB: 15-800A</li> <li>Bus plug fusible: 30-600A</li> </ul>	<ul style="list-style-type: none"> <li>Indoor, drip-proof, splash-proof, outdoor</li> <li>Copper or aluminum</li> <li>Neutral conductor</li> <li>Plug-in or feeder bus</li> </ul>	<ul style="list-style-type: none"> <li>Over 30 years of experience</li> <li>50% decrease in size and weight</li> <li>Ex. 2000A, AL, 3ph/4w, 10': 8.5" x 4.5" cross-section, 150 lbs (CU: 260 lbs)</li> </ul>
 <b>Spectra™ and Evolution™ series switchboard</b>	<ul style="list-style-type: none"> <li>Up to 6000A with main device</li> <li>Up to 1200A group feeders</li> <li>Up to 150kAIC @ 480V</li> <li>Up to 100kAIC @ 575V</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1, 3R enclosure</li> <li>Silver or tin plated copper bus</li> <li>Bussed cable pull section</li> <li>GenTower™ generator switchboard</li> </ul>	<ul style="list-style-type: none"> <li>UL-891 (3 cycle withstand)</li> <li>UL-1066 bkr available (EntelliGuard™)</li> <li>Can be front-only accessible</li> <li>Light industrial application</li> </ul>
 <b>Spectra™ and EntellEon™ power panel</b>	<ul style="list-style-type: none"> <li>150-1200A fully rated</li> <li>Up to 600VAC</li> <li>1P3W, 3P3W/4W</li> <li>Up to 100kAIC</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1 enclosure only (wall-mount)</li> <li>200% rated neutrals</li> <li>1-pole, 2-pole, 3-pole breakers</li> <li>Integral TVSS</li> </ul>	<ul style="list-style-type: none"> <li>UL-67</li> <li>Single-person installation</li> <li>Reversible top or bottom feed</li> <li>Heavy commercial application</li> </ul>
 <b>Zenith automatic transfer switch (ATS) and paralleling switchgear (PSG)</b>	<ul style="list-style-type: none"> <li>ATS: 30-4000A @ 600VAC</li> <li>ATS: 600-3000A @ 5-15kV</li> <li>PSG: 480-15kV</li> </ul>	<ul style="list-style-type: none"> <li>Open, NEMA 1, 3R enclosure</li> <li>Single or three-phase</li> <li>2, 3, 4-pole applications</li> <li>Open/delayed or closed transition</li> </ul>	<ul style="list-style-type: none"> <li>New facility in Senatobia, MS</li> <li>TruOne™ ATS is gamechanger</li> <li>Can package UPS, PDU, batteries</li> <li>Typical life safety requirement: 10s</li> </ul>
 <b>Evolution Series E9000™ and MNS™ motor control center (MCC)</b>	<ul style="list-style-type: none"> <li>Up to 4000A main bus</li> <li>Up to 1600A vertical bus</li> <li>Up to 100kAIC @ 480V</li> <li>Up to 65kAIC @ 575V</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1, 1HG, 2, 3R, Type 12 enclosure</li> <li>Arc resistant Type 2 up to 2000A</li> <li>3-wire or 4-wire with neutral</li> <li>Plug-in VFD, soft starters</li> </ul>	<ul style="list-style-type: none"> <li>UL-845</li> <li>Plug-in starters up to size 5</li> <li>Plug-in feeders up to 600A</li> <li>MNS™ has unique multifunction wall</li> </ul>
 <b>Dry type transformer</b>	<ul style="list-style-type: none"> <li>15-250kVA in 1-phase</li> <li>15-1000kVA in 3-phase</li> <li>Line: 240V, 480V, 600V</li> <li>Load: 120V, 208V, 240V, 480V</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 2, 3R, 3R (stainless) enclosure</li> <li>K-factor rated for non-linear loads</li> <li>Temperature rise: 55, 80, 115 or 150°C</li> <li>Low audible noise</li> </ul>	<ul style="list-style-type: none"> <li>Outward facing mounting feet</li> <li>Lug kit included</li> <li>Typical four 2½% taps below rating</li> <li>Typical two 2½% taps above rating</li> </ul>
 <b>Uninterruptible power supply (UPS)</b>	<ul style="list-style-type: none"> <li>1-80kVA, 1-ph (110-276V)</li> <li>10kVA-5MVA, 3-ph (208-480V)</li> <li>2-6MVA (3.3kV to 6.6kV)</li> </ul>	<ul style="list-style-type: none"> <li>Static Transfer Switch (STS)</li> <li>Power Distribution Unit (PDU)</li> <li>Maintenance bypass cabinet</li> <li>Battery monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Certain models 99.9999% uptime</li> <li>94-99% efficient</li> <li>Unity power factor (kW=kVA)</li> <li>Typical data ctr requirement: 10ms</li> </ul>
 <b>A-Series II™ panelboard</b>	<ul style="list-style-type: none"> <li>240V, 480V/277V</li> <li>Main bus 125-800A</li> <li>Up to 65kAIC @ 480V</li> <li>Up to 100kAIC @ 240V</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1, 3R, 12, 4X (painted) enclosure</li> <li>Main breaker, main lugs, subfeed lugs</li> <li>Copper or aluminum main bus</li> <li>Integral TVSS</li> </ul>	<ul style="list-style-type: none"> <li>UL-67</li> <li>12-84 circuits</li> <li>Pro-Stock™ use modular kits from distributor stock</li> </ul>
 <b>PowerMark Gold™ single-phase load center</b>	<ul style="list-style-type: none"> <li>120/240VAC</li> <li>40-225A main lug standard</li> <li>Main breaker option 125A+</li> <li>22kAIC main bkr, series 22/10</li> </ul>	<ul style="list-style-type: none"> <li>Indoor or outdoor</li> <li>Flush or surface</li> <li>White front option</li> <li>GFCI, AFCI, DFCI breaker options</li> </ul>	<ul style="list-style-type: none"> <li>UL-67</li> <li>2-42 circuits</li> <li>Galvanized box, copper bus</li> <li>Residential application</li> </ul>
 <b>Spec Setter™ safety switch</b>	<ul style="list-style-type: none"> <li>30-600A</li> <li>2P3W, 3P3W/4W, 240VAC</li> <li>2P2W, 600VDC (30-100A)</li> <li>10kAIC @ 240VAC/250VDC</li> </ul>	<ul style="list-style-type: none"> <li>NEMA 1, 3R enclosure</li> <li>Fusible or non-fusible</li> <li>General duty, heavy duty, mill duty</li> <li>Emergency power transfer</li> </ul>	<ul style="list-style-type: none"> <li>NEMA KS-1 for general duty</li> <li>Suitable as service equipment</li> <li>Lockable cover and handle</li> </ul>
 <b>Installation Products</b> formally Thomas & Betts	<ul style="list-style-type: none"> <li>Cable protection systems</li> <li>Power connection &amp; controls</li> <li>Safety technology</li> <li>Wire and cable management</li> </ul>		

See Electrical installation at [new.abb.com/low-voltage/products](http://new.abb.com/low-voltage/products)

\*Partial list of ABB's solutions offering. Contact your local ABB representative or visit [abb.com](http://abb.com) for full listing

## Consultant Engineer Resources

[solutions.abb.com/consulting-design-engineer](https://solutions.abb.com/consulting-design-engineer)



### Specifier's Guide

Low and medium voltage one-liners



### Time Current Curves

View and download time-current curves and energy let-through curves



### Specifications

In 1995 and 2004 CSI master format



### Building Information Modeling (BIM) Files

Downloadable BIM files for AutoDesk® Revit® MEP



### Component Models

Downloadable 3D models



### Publication Library

Online repository for technical documents and promotional literature



### Smart Catalog Center

Instantly access the latest product catalogs 24 hours a day



### Arc Flash Hazard Protection and Arc Watch™

Explore products and services that reduce exposure



### Seismic Rating Information

Product compliance information and listing of certificates



### White Papers

Read what ABB's experts have to say regarding key industry issues

## Contractor Resources

[solutions.abb.com/contractor](https://solutions.abb.com/contractor)

### Safety

- Arc flash codes and compliance (webinar)
- IEEE 1584 - What you need to know (webinar)
- Strategies to improve electrical safety (webinar)
- The ultimate arc flash guide (interactive)
- Reduced Energy Let Thru - RELT (white paper)
- Arc flash safety series (interactive)

### Education

- Arc flash codes and compliance (webinar)
- IEEE 1584 - What you need to know (webinar)
- Strategies to improve electrical safety (webinar)
- Industry trends: Training & Education (infographic)
- Technical Tuesdays (webinar)
- Request a Lunch-and-Learn

### Product Solutions

- Introduction to EntellEon (video)
- AFCI advantage with shared neutrals
- EntellEon panel solutions (digital guide)
- Publication library

### Technology

- Secrets to more effective electrical estimating (E-book)
- Industry trends: Technology & Digital tools (webinar)
- Tools and Calculators

### Business & Industry

- State of the industry research study (report)
- Industry trends: Factors impacting business (infographic)
- Economic vital signs (infographic)
- Solving the skilled labor shortage (article)
- Secrets to more effective electrical estimating (E-book)

### Industry Resources/Links

- Links to industry codes and standards
- Smart catalog center
- Tools and calculators

## Webinar Center

[electrification.us.abb.com](https://electrification.us.abb.com)

## Download "Best of Both" app

Explore the future of ABB through this augmented reality experience. Interact and see breakers being changed out in an EntellEon Panelboard. Select and view the breakers in 3D that make up the panel. Download links below:

[Apple Store](#)

[Google Play Store](#)

01 New SACE Emax circuit breaker (UL-1066) family rated 1200A, 2000A, 4000A, 6300A up to 690VAC



01

02 Ekip Hi-Touch trip unit with dual settings of protection and network analyzer function



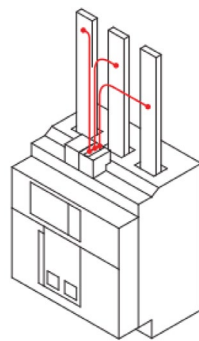
02

03 New Tmax XT molded case circuit breaker (UL-489) with Ekip Hi-Touch trip unit. Tmax XT (up to 250A) Tmax T (400-3000A)



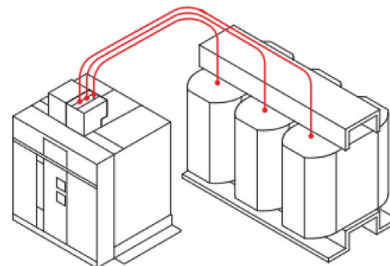
03

04 Both Emax and Tmax have modular options such as bus temperature input shown



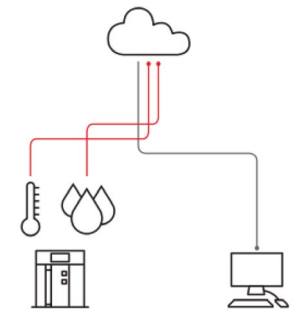
04

05 Both Emax and Tmax have modular options such as transformer coil temperature input shown



05

06 Ekip Com offers the choice of 10 comms protocols, Ekip Com Hub establishes a cloud connection



06

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