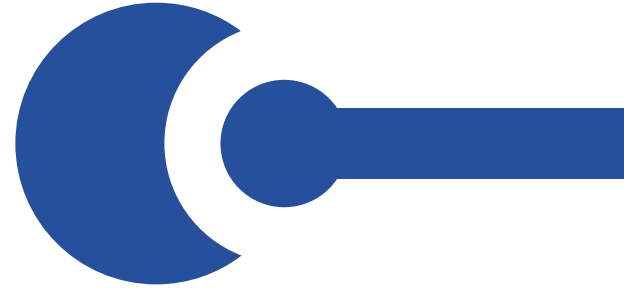


# gross automation



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[www.grossautomation.com](http://www.grossautomation.com)

## ABB Automation

Programmable Logic Controllers (PLCs), Industrial IT, Repairs, Service, Drives & Motors

## ABB Circuit Protective Devices

Fusible & Non-Fusible Disconnects, Miniature and Molded Case Circuit Breakers, Large Power Breakers

## ABB Entrelec Connection Solutions

Screw Clamp, Spring Connection & Insulation Displacement Terminal Blocks, Distribution Blocks, PCB Connectors & Marker Cards

## ABB Industrial Controls

Contactors, Overloads, Starters, Relays, Photoelectric & Proximity Sensors, Pilot Devices

## ABB Low Voltage Network Quality Products

Capacitors, Banks, Power Quality Filters & Power Factor Controllers

## ABB Power Transmission & Distribution (T&D) Systems

Arrestors, Capacitors, Instrument Transformers, Protective Relays, Low Voltage & Medium Voltage Switchgear, Transformers

## ABB SSAC Timers, Relays & Controls

Timers, Flashers, Voltage, Current & Liquid Level Monitors



**Akron Electric, Inc.**  
Explosion-Proof Enclosures & Electrical Systems



**American Insulated Wire Corporation**  
Power, Control & Instrumentation Cables



**Baldor Electric Company**  
AC & DC Motors, Drives, Servos & Controls



**Brad Harrison/Woodhead Conductivity**  
Cordsets, Connectors & Soft Wiring Solutions



**Carlion Electrical Products**  
Nonmetallic Enclosures, Conduits, Fittings & Accessories



**Crouzet Corporation**  
Solid State Relays, Timers, Counters, Controllers & Fans



**Daniel Woodhead Company**  
Wiring Devices, Cable Grips, Electric Cords & Cable Reels



**Dart Controls, Inc.**  
DC Speed Controls, Digital & Analog Control Systems



**E-MON LP**  
Submetering & Energy Monitoring Products



**Electrical South**  
Industrial Electronic Performance Testing & Quality Repairs



**Entertron Industries**  
Embedded PLCs & Operator Interfaces



**Ferraz Shawmut**  
Fuses, Fuse Holders, Power Distribution Blocks & Disconnect Switches



**Hammond Enclosures**  
Industrial, Corrosion Resistant, Disconnect & Commercial Enclosures



**Hammond Power Solutions, Inc.**  
Control Transformers, Distribution Transformers & Line Reactors



**Harmonics Limited**  
Harmonic Suppression Technologies & Transformer Systems



**Igus, Inc.**  
Flexible Cables, Cable Carriers & Linear Guide Systems



**Innovative Technology, Inc.**  
Transient Voltage Surge Suppression Protection Systems



**KEP/Kessler-Ellis Products, Co.**  
Counters, Timers, Rate Indicators & Operator Interfaces



**Kuhnke**  
Switching, Power & Measuring Relays & Sockets



**Lenze Electronic Drives & Servos**  
Inverters, Vectors & Servo Systems



**OnLine Power, Inc.**  
Power Conditioners, Voltage Regulators, UPS Systems & PDUs



**Oriental Motor USA Corporation**  
Small AC Motors, Stepping Motors & Cooling Fans



**Penn-Union Corporation**  
Electrical Connectors, Plugs, Clamps & Lugs



**Power-One**  
Linear AC/DC, DC/DC & Switching Power Supplies



**SEEKA/Pulnix America, Inc.**  
Photoelectric, Color Mark, Distance & Analog Sensors



**Shat-r-Shield, Inc.**  
Plastic Coated, Shatter Resistant Fluorescent, Incandescent & HID Lamps



**Stone Tools**  
Saws, Blades, Bits, Knives & Tools



**SymCom, Inc.**  
MotorSaver® & PumpSaver® Motor Protection Products



**TCI/Trans-Coil, Inc.**  
Line & Tuning Reactors, Drive Output & EMI/RFI Filters



**ThermOweld/Continental Industries, Inc.**  
Grounding & Bonding Cables, Connectors & Exothermic Welding Systems



**Identification Products**  
Heat Shrink, Wire Marking & Cable Identification Products  
**Energy Products**  
Low/Medium Voltage Bus Covers, Flexible Insulated Bars, Cable Terminations, Mounting Brackets & Splices



**Walther Electric Corporation**  
International & North American Pin & Sleeve Devices



**Westermo**  
Industrial Data Communication Equipment including Isolators, Protocol Converters, Modems & Ethernet Switches



**Woodhead Connectivity**  
Communications & Connectivity Networks for DeviceNet, Profibus & Industrial Ethernet

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# Product Cross Reference

<b>Arrestors</b>	ABB T&D
<b>Cable</b>	
• Control	American, Brad Harrison
• Electronic	American, Brad Harrison, Woodhead
• Flexible	Igus
• Power	American, Woodhead, Tyco
<b>Cable Ties</b>	ABB
<b>Capacitors</b>	ABB, Jumet
<b>Circuit Breakers</b>	
• Miniature	ABB, Entrelec, Stotz-Kontakt
• Power	ABB, SACE
<b>Conduit</b>	Carlton
<b>Connectors</b>	
• Ethernet	Woodhead Connectivity
• General Purpose	Penn-Union, Daniel Woodhead
• Grounding	ThermOweld, Penn-Union
• Printed Circuit Board	Entrelec
• PLC Wiring	Entrelec, Brad Harrison, Woodhead
<b>Contactors</b>	
• Drive Isolation	ABB, Petercem
• Motor Control	ABB, Entrelec, Schiele, Petercem
• Welding	ABB, Petercem
<b>Converters &amp; Repeaters</b>	Entrelec, Westermo
<b>Cordsets</b>	
• DeviceNet	Woodhead Connectivity
• Ethernet	Woodhead Connectivity
• General Purpose	American Insulated Wire, Brad Harrison
• Profibus	Woodhead Connectivity
<b>Counters</b>	Kessler-Ellis, Crouzet, FSI, Syrelec
<b>DIN Rail</b>	ABB, Entrelec, Custom
<b>Disconnect Switches</b>	ABB, Socomec, Stromberg
<b>Drives</b>	
• AC	ABB, Baldor, Lenze
• DC	ABB, Dart
• Servo	Baldor, Lenze
• Stepping	Oriental
• Vector	Baldor, Lenze
<b>Enclosures</b>	
• Climate Control	Hammond
• Corrosion Resistant	Carlton, Hammond
• Custom	Akron, Hammond
• Disconnect	Hammond, Akron
• Explosion Proof	Akron, Hammond
• Industrial	Hammond, Carlton
<b>Encoders</b>	Fork Standards (FSI)
<b>Ethernet Components</b>	Westermo, Woodhead Connectivity
<b>Fans</b>	Crouzet, Oriental, Hammond
<b>Fiber Optic Communications</b>	Westermo
<b>Filters</b>	
• Drive Output	Hammond, Trans-Coil (TCI)
• EMI/RFI	Trans-Coil (TCI)
• Power System	ABB, Harmonics, Trans-Coil (TCI)
<b>Fuses</b>	
• General Purpose	Ferraz Shawmut
• Medium Voltage	Ferraz Shawmut
• Semi-Conductor	Ferraz Shawmut

<b>Fuse Blocks</b>	Entrelec, Ferraz Shawmut
<b>Gearboxes</b>	Lenze, Vogel, Baldor, Oriental
<b>Grounding Equipment</b>	Ground Check, ThermOweld
<b>Harmonic Filters</b>	
• Single Phase	Harmonics
• Three Phase	ABB, Harmonics, Trans-Coil (TCI)
<b>I/O Systems</b>	
• Ethernet	Brad Harrison, Woodhead Connectivity
• Modbus	ABB, Entrelec, Schiele
• Profibus DP	ABB, Brad Harrison, Alfa Laval, Schiele
<b>Isolators</b>	ABB T&D, Tyco
<b>Lighting</b>	
• Bulbs	Shat-r-Shield
• Portable	Daniel Woodhead, Stone Tools
<b>Linear Guides</b>	Igus
<b>Line Reactors</b>	Hammond, Trans-Coil (TCI)
<b>Lugs</b>	Penn-Union
<b>Modems</b>	Westermo
<b>Monitors</b>	
• Voltage & Current	ABB SSAC, Entrelec, SymCom
<b>Motors</b>	
• AC	ABB, Baldor, Oriental
• DC	ABB, Baldor, Dart
• Gear	Crouzet, Lenze, Oriental, Baldor
• Stepping	Oriental
• Servo	Baldor, Lenze
<b>Operator Interfaces</b>	KEP, Kessler-Ellis, ABB, Entertron
<b>Pin &amp; Sleeve Connectors</b>	Walther
<b>Pilot Devices</b>	ABB, Entrelec
<b>Power Conditioning</b>	Entrelec, Hammond, Harmonics, OnLine Power, SSAC, TCI
<b>Power Distribution Blocks</b>	ABB, Entrelec, Ferraz Shawmut
<b>Power Distribution Units (PDUs)</b>	OnLine Power
<b>Power Supplies</b>	
• AC/DC	Entrelec, Schiele, Power-One
• Uninterruptible	OnLine Power
<b>Profibus Equipment</b>	ABB, Entrelec, Westermo, Woodhead
<b>Programmable Logic Controllers (PLCs)</b>	ABB, ABB Industrial <sup>IT</sup> , Crouzet, Entertron
<b>Protocol Converters</b>	ABB, Westermo, Entrelec
<b>Rate Indicators</b>	Kessler-Ellis, Crouzet, Dart
<b>Relays</b>	
• Control	ABB, Kuhnke, Stotz-Kontakt, Petercem
• Monitoring	ABB, Crouzet, Schiele, SSAC, SymCom
• Overload	ABB, Schiele, SymCom
• Programmable	Crouzet, Entrelec, ABB
• Safety	ABB, Crouzet, Entrelec, Schiele
• Solid State	Crouzet, Gordos, Entrelec, SSAC
• Timing	ABB, Crouzet, Entrelec, Schiele, SSAC, Syrelec
<b>Repairs</b>	ABB, Electrical South
<b>Safety Equipment</b>	ABB, Crouzet, Entrelec, Schiele, Shat-r-Shield

<b>Sensors</b>	
• Analog	ABB, SEEKA, Pulnix, Takenaka, P+F
• Color Mark	SEEKA, Pulnix, Takenaka
• Current	ABB, Crouzet, Entrelec, SSAC, SymCom
• Mechanical	ABB, Crouzet
• Phase	Crouzet, Schiele, SSAC
• Photoelectric	ABB, P+F, SEEKA, Pulnix, Takenaka
• Proximity	ABB, P+F
• Ultrasonic	ABB, P+F
• Voltage	Crouzet, Entrelec, SSAC, SymCom
<b>Servo Drives &amp; Motors</b>	Baldor, Lenze
<b>Signal Isolators</b>	Entrelec, Westermo
<b>Signal Towers</b>	ABB
<b>Softstarters</b>	ABB, Baldor
<b>Starters</b>	ABB, Schiele, Petercem, Stotz-Kontakt
<b>Submetering</b>	E-MON
<b>Surge Protection</b>	Entrelec, Innovative Technology
<b>Switches</b>	
• Ethernet	Westermo, Woodhead Connectivity
• Foot	ABB
• Limit	ABB, Crouzet
• Miniature	Crouzet
• Rotary	Entrelec
<b>Switchgear</b>	ABB T&D
<b>Terminal Blocks</b>	Entrelec, Ferraz Shawmut
<b>Timers</b>	ABB, Entrelec, Kessler-Ellis, SSAC, Syrelec
<b>Tools</b>	Ground Check, Stone Tools
<b>Touch Screens</b>	KEP, Kessler-Ellis
<b>Transformers</b>	
• Distribution	Hammond
• Drive Isolation	Hammond
• Energy Efficient (TP-1)	Hammond, Harmonics
• Industrial Control	Hammond, ABB
• Medium Voltage	ABB T&D, Hammond
<b>TVSS Products</b>	Innovative Technology
<b>Uninterruptible Power</b>	OnLine Power
<b>Wire</b>	American Insulated Wire, Tyco
<b>Wire Duct</b>	ABB, Carlton
<b>Wire Marking Systems</b>	Raychem, Critchley, Tyco
<b>Wireway &amp; Troughs</b>	Hammond, Igus, Carlton
<b>Wiring Systems</b>	ABB, Entrelec, Brad Harrison, Carlton, Woodhead Connectivity

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