



Support for success A guide for new distributors

Support for success

A guide for new distributors

Our products in vertical markets

| | Chemical processing | Civil infrastructure | Commercial and institutional | Food and beverage processing | Metals and mining | Oil and gas | Power generation | Pulp and paper processing | Renewable energy | Transmission and distribution | Water/ wastewater treatment facilities | Rail | OEM/panel builders/ system integrators | Critical power/ data centers | Distribution equipment manufacturer, switchgear/ switchboard | Material handling | Packaging | General industrial manufacturing |
|--|---------------------|----------------------|------------------------------|------------------------------|-------------------|-------------|------------------|---------------------------|------------------|-------------------------------|--|------|--|------------------------------|--|-------------------|-----------|----------------------------------|
| Circuit breakers | | | | | | | | | | | | | | | | | | |
| Tmax series molded case circuit breaker 15A to 3000A | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Emax series air circuit breaker 800A to 6000A | • | | • | | • | • | • | • | • | • | • | | | • | • | | | |
| FORMULA series 240V compact molded case breaker | • | | • | • | | • | | • | | | • | | • | | | • | • | • |
| Disconnect switches | | | | | | | | | | | | | | | | | | |
| Open style | | | | • | • | • | | • | | | • | | • | | • | • | • | • |
| Enclosed style | | | | • | • | • | | • | | | • | | • | | • | • | • | • |
| Safety switches | | | | • | • | • | • | | | | • | | • | | • | • | • | • |
| Contactors/overloads/ manual motor protectors | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Open & enclosed starters/combos | | • | | • | • | • | | • | | | • | | • | | | • | • | • |
| Softstarters | | | | • | • | • | | • | | | • | | • | | | • | | |
| Connectors, electronic products and relays | | | | | | | | | | | | | | | | | | |
| Connections – terminal blocks/interfast | | | | • | • | • | • | • | • | • | • | • | • | • | | • | • | • |
| EPR – timers/monitors/relays | | | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| Jokab Safety products | • | | | • | • | • | | • | • | | • | • | • | | | • | • | • |
| Pilot devices | • | | | • | • | • | | • | • | • | • | | • | | | • | • | • |
| Arc Guard System™ | • | | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| Mini circuit breakers | | | | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| Surge protection devices | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| Modular DIN-rail mountable components | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| Residual current devices | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | | | |

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Circuit breakers

Tmax molded case circuit breakers

Tmax molded case circuit breakers are characterized by an extremely high level of performance with limited overall dimensions and installation simplicity. The Tmax line is available in nine sizes, a complete range of trip units and a wide variety of electrical and mechanical accessories. Available in thermal magnetic and electronic versions, Tmax offers complete adaptability to solve any application need, supporting current up to 3000A, short circuit protection up to 150kA at 480 VAC, and voltage up to 600 VAC or 1000 VDC.

<http://www.abb.com/product/us/9AAC100091.aspx>



Emax air circuit breakers

Emax air circuit breakers provide innovative solutions that focus on the latest in protection technology, providing ease of installation and use. They can be used both as circuit breakers for general protection (of plants, of user complexes and of electric lines) and as protection circuit breakers for electrical machines (generators, motors, transformers and capacitors). Available in fixed and draw-out versions, Emax is the ideal solution for the growing requirements of designers, switchboard and switchgear manufacturers, installers, OEMs and end users, supporting current up to 6300A, short circuit protection up to 150kA, and voltage up to 600 VAC or 1000 VDC.

<http://www.abb.com/product/us/9AAC100086.aspx>

FORMULA 240V compact molded case circuit breakers

FORMULA compact molded case circuit breakers are designed for simplicity, quality and versatility. They offer quick and easy selection, multiple polarities for various applications, reduced depth and a complete line of accessories. The FORMULA family consists of two frame sizes for currents of up to 100A or 250A. Both are available in a fixed version with front terminals. The protection trip unit has fixed thermal and magnetic threshold values for putting the circuit breaker into service rapidly. The compact design eases installation and increases work space inside switchboards and panels, an advantage for OEMs, panel builders and installers.

<http://www.abb.com/product/seitp329/1d36223a3102e4fac1257a9b003385da.aspx?productLanguage=us&country=US>

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Circuit breakers *(cont.)*

Literature

| | Document Part # | Description | Link |
|--|-----------------|--|----------------------|
| TMAX Series molded case circuit breaker 15A to 3000A | 1SXU210023D0201 | Tmax T Generation: Low voltage molded case circuit breakers up to 1200 A UL 489 and CSA C22.2 Standard | link |
| | 1SDC210028D0201 | Tmax T8: Low voltage molded case circuit breaker up to 3000 A UL 489 and CSA C22.2 Standard | link |
| | 1SDC001007D0202 | Spare parts catalogue: Low voltage circuit breakers | link |
| EMAX Series Air Circuit Breaker 800A to 6000A | 1SDC001001B0207 | Panorama of the low voltage apparatus: Automatic moulded-case and air circuit-breakers | link |
| | 1SDC007904L0201 | SACE Tmax VF and Emax VF: Low voltage circuit-breakers for variable frequency applications | link |
| | V201212 | Low voltage air circuit-breakers for direct current applications: Emax DC | link |
| Formula Series 240v Compact Molded Case Breaker | 1SXU210022D0201 | Formula Circuit Breaker Catalog | link |
| | | Circuit breakers suggested stocking list | link |

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Disconnect switches

ABB has a wide portfolio of low voltage switches that includes: fusible, non-fusible, change-over, enclosed and cam switches with ratings between 16 and 3150 amps. Suitable for machinery, power distribution, switchboards, motor control centers and photovoltaic applications, these units offer high performance, compact size, easy installation and safe use, along with UL 508 and UL 98 Listing.



Literature

| | Document Part # | Description | Link |
|-----------------|-----------------|--|----------------------|
| Open style | 1SXU301199X0201 | folder - all switches | link |
| Enclosed style | 1SXU301199X0201 | see above | |
| Safety switches | 1SXU301199X0201 | see above | |
| | 1SCC340010C0201 | Enclosed switches, Heavy duty safety switches, Fusible and non-fusible | link |
| | | Disconnect switches suggested stocking list | link |

<http://www.abb.us/product/us/9AAC100793.aspx?country=US>

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Contactors/overloads/ manual motor protectors

Contactors and overload relays

ABB's AF Range of contactors and overload relays is the new standard in motor control and power switching. Featuring electronically controlled coils with wide input voltage ranges, AF contactors establish a new industry benchmark. By helping to access global support, optimize logistics, simplify design and secure uptime, ABB's wide product offering provides the optimal solution, every time.



Manual motor protectors

Manual motor protectors can reduce panel space, installation time and cost. Applications include manual motor control, local motor disconnect, group installation and self-protected combination motor controllers. A wide variety of busbar, signaling contacts and coupling accessories for use with AF range contactors are available.

Literature

| Document Part # | Description | Link |
|-----------------|---|----------------------|
| 1SXU100109C0201 | Motor protection and control: AF range contactors and overload relays | link |
| 1SXU100110B0201 | Motor protection and control: Manual motor starters, contactors and overload relays | link |
| | Contactors/overloads/manual motor protectors suggested stocking list | link |

<http://www.abb.us/product/us/9AAC100107.aspx?country=US>

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Open & enclosed starters/combos

ABB's starters can be designed for most motor control applications using mechanical starting means as well as solid state and incorporating many custom solutions as well.



Literature

| Document Part # | Description | Link |
|-----------------|---|----------------------|
| 1SXU133052C0201 | Enclosed IEC and NEMA starters: Non-combination and combination motor controllers | link |
| 1SXU133053L0201 | Enclosed IEC and NEMA starters: Product overview leaflet | link |
| | Open & enclosed starters/combos suggested stocking list | link |

<http://www.abb.us/product/seitp329/26843f369997dcdec125736900609908.aspx?productLanguage=us&country=US>

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Softstarters

The ABB softstarter portfolio consists of three different ranges, making it possible to find a suitable softstarter for almost all possible applications and motor sizes up to 1800A. The softstarter family consists of the Compact PSR, the Efficient PSE and the Advanced PST(B) range. The range covers all motor applications from 3 amps to 1810 amps used in a main voltage between 208 and 600 VAC.



Literature

| Document Part # | Description | Link |
|-----------------|---|----------------------|
| 1SXU132009B0201 | Softstarters — The complete range brochure panorama | Link |
| 1SXU132174C0202 | Softstarter Main Catalog | Link |
| | Softstarters suggested stocking list | link |

<http://www.abb.us/product/us/9AAC171541.aspx?country=US>

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Connections, electronic products and relays

Connections

As a specialist in connection devices for over 50 years, ABB offers one of the most comprehensive product ranges of terminal blocks on the market. ABB's terminal blocks meet a wide range of customer requirements: from small panel builders to large OEMs, from standard distribution and control panels to the most specialized applications in key industries such as energy, maritime, explosive atmospheres and traction. Choose from thousands of high quality standard terminal blocks and functions. Whatever your requirements are, you will find the connection products that fit your needs.

<http://www.abb.us/product/us/9AAC124501.aspx?country=US>

Electronic products and relays

ABB's electronic products and relays assortment includes a broad range of products that provide power, control and monitoring of electrical and automation equipment. These versatile products offer maximum efficiency and functionality at a variety of price points, adding value while meeting the customer's requirements. Products include: power supplies, timers, monitors, signal and data converters, relays and optocouplers, interface products, universal motor controllers and logic relays.

<http://www.abb.us/product/us/9AAC100114.aspx?country=us>



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Literature

| | Document Part # | Description | Link |
|---|-----------------|---|----------------------|
| Connections – Terminal Blocks/Interfast | 1SNC160019C0202 | SNA Series Terminal Blocks Main Catalog | link |
| | 1SNK160027C0201 | SNK Series Terminal Blocks Main Catalog | link |
| | 1SNK215201R0000 | SNK-TA-2 terminal block sample | |
| EPR – Timers/Monitors/Relays | 2CDC110004C0209 | EPR Main Catalog 2013-2014 | link |
| | 1SXU110001B0201 | EPR Panorama | link |
| | | Connections, electronic products and relays suggested stocking list | link |

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Jokab Safety products

ABB Jokab Safety provides an extensive range of innovative products and solutions for machine safety systems. These products offer unique features that save labor and components, simplify maintenance and troubleshooting and provide the highest level of safety. Products include safety relays, safety PLCs, safety controllers and programmable safety controllers, light barriers, sensors, switches, process locks, control devices, machine fencing systems and modular panels



Literature

| Document Part # | Description | Link |
|-----------------|--|----------------------|
| 1SXU172020C0201 | Machine safety systems and components | link |
| 1SXU172019C0201 | Safety contact mats | link |
| 1SXU172023B0201 | Pluto safety PLCs product overview | link |
| 1SXU172021C0201 | Quick guard modular safety fencing panels | link |
| 1SXU172003C0201 | Safety switches and emergency stops | link |
| 1SXU172027B0201 | Focus II safety light curtains and grids product overview | link |
| | Jokab Safety product fast facts — 1 page, front and back quick reference guide for promoting various safety products | link |
| | Jokab Safety products suggested stocking list | link |

<http://www.jokabsafetyna.com/>

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Pilot devices

ABB offers two ranges of pilot devices for 22mm diameter holes. The modular range includes operators, holders, contact blocks, lamp blocks and LED blocks that can be combined to provide the required function. A snap-on design reduces installation time, and spring-loaded tabs ensure that actuators and legend plates are in correct position. The compact range offers a flexible, economical solution with all functions built into a single unit for easy mounting and reduces stocking levels. The same 22mm pilot devices can be easily converted to fit 30mm diameter holes by using the 30mm adapter rings.



Literature

| Document Part # | Description | Link |
|-----------------|---|----------------------|
| 1SFC151004C0201 | Pilot Devices the complete offering, Main Catalogue | link |
| 1SFC151021E0201 | Modular Sample Box | |
| 1SFC151023E0201 | Compact Sample Box | |
| 1SFC151025E0201 | Additional Products Box | |
| 1SFC151029E0201 | Joystick Sample Box | |
| | Pilot devices suggested stocking list | link |

<http://www.abb.us/product/us/9AAC100140.aspx?country=US>

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Arc Guard System™

The ABB Arc Guard System protects people and equipment and eliminates unnecessary production stops by quickly detecting an arc fault and tripping the incoming circuit breaker. Using light as the main condition, Arc Guard trips instantaneously, overriding all other protections and delays, which is crucial when reaction times need to be measured in milliseconds. Up to 30 sensors can be connected with fiber optic cable to each monitoring unit.



Literature

| Document Part # | Description | Link |
|-----------------|-------------------------------------|----------------------|
| 1SXU170174B0201 | Arc Guard System - TVOC-2 brochure | link |
| 1SXU170173C0201 | Arc Guard System - TVOC-2 catalogue | link |

<http://www.abb.us/product/seitp329/fba3d63030ce26b8c1256da4002f1614.aspx?productLanguage=us&country=US>

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Joslyn® surge protection devices

For over 50 years, the Joslyn® brand has been recognized as the leading name in power, signal and communications protection. The JSP family of products offers the best in surge protection performance and reliability with component-level fusing and optional advanced filter for enhanced ringing transient plus EMI/RFI attenuation. The JSP is designed and tested to withstand surge currents in accordance with both ANSI/IEEE and IEC recommendations, plus it exceeds the safety requirements of UL 1449 3rd edition. Available in all standard US domestic and international voltages, plus power system configurations with surge ratings running from 60 to 400 kA, the JSP is the ideal choice for standard surge protection needs.



Literature

| Document Part # | Description | Link |
|-----------------|---------------------------------------|----------------------|
| | Joslyn® FAQs | link |
| | Joslyn® SPD Glossary | link |
| | Joslyn® Shortform Catalog | link |
| | Quick Step Guide to Purchasing an SPD | link |

http://www.tnbpowersolutions.com/jsp_spd

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Surge protection devices (cont.)

Surge protection devices (SPDs) are designed for a long service life, protecting valuable equipment from transient surges due to lightning strikes as well as surges from upstream equipment and utility load switching. They are suitable for protection of critical-power facilities such as hospitals and data centers, along with renewable energy, water/wastewater treatment and other manufacturing and commercial operations.



Literature

| Document Part # | Description | Link |
|-----------------------|---|----------------------|
| 1SXU430204C0201 Rev A | SPD Catalog | link |
| 1SXU430066L0201 | SPD Info Tool | link |
| 1SXU430090L0201 | PV SPD info Tool | link |
| 1SXU430030L0201 | OVR NE12 Customer Story | link |
| OVR-PROMOBOX | UL1449 3rd Edition Surge Protective Device Sample Box | |

<http://www.abb.us/product/seitp329/2359d69bf7eaa242c1256ef40023ef7e.aspx>

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Miniature circuit breakers

ABB, the inventor of miniature circuit breaker (MCB) technology, offers the largest selection of current-limiting, compact, DIN-rail mounted MCB options, including industry-specific solutions for the wind and solar PV markets — for both AC and DC applications. Thermal and magnetic trips are provided to cover both overcurrent and short-circuit faults.



Literature

| Document Part # | Description | Link |
|-----------------------------|---|----------------------|
| 2CDC002138D0201 | System Pro M Compact Supplementary protector S 200 PR UL1077 | link |
| 2CDC002139D0201 | System Pro M Compact Circuit Breaker SU 200 PR UL489 | link |
| 2CDC002168D0202 | System Pro M Compact Miniature Circuit Breaker S 200 U and S 200 UP | link |
| S201-B16-CLR – UL1077 S200 | Clear Sample | |
| S801S-C40-CLR – UL1077 S800 | Clear Sample | |
| S201PR-K6OF – UL1077 | Ring Tongue Terminal Mini Breaker Sample | |
| SU201PR-K6OF – UL489 | Ring Tongue Terminal Mini Breaker Sample | |
| S200UDC-PROMOBOX | UL489 S200 DC Sample Box | |
| S200PRT-PROMOBOX | Ring Tongue Terminal Mini Breaker Sample Box | |
| SMPL3118 | Mini Breaker and ProLine Breaker Samples | |
| | Mini Circuit Breakers - LPED suggested stocking list | link |

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Modular DIN-rail mountable components

ABB's line of modular DIN-rail mountable components includes fuse holders and fuse disconnects, on-off switches, pushbuttons, indicator lights and more. These components are all designed for versatility in a variety of applications and for quick, easy installation.



Literature

| Document Part # | Description | Link |
|-----------------|--|----------------------|
| 2CSC444003B0202 | E90 Catalog | link |
| 2CCC441003C0201 | E210 Catalog | link |
| E210-PROMOBX | DIN Rail Mount Command Device Sample Box | |
| E90PV-PROMOBX | PV Fuseholder Sample Box | |

<http://www.abb.us/product/us/9AAC100485.aspx?country=US>

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Residual current devices, or ground fault equipment protectors, are devices intended to provide protection of equipment against damaging line-to-ground currents by disconnecting all ungrounded conductors of the faulted circuit. By adding a residual current device to the system, ground faults are detected immediately, preventing serious damage.



Literature

| Document Part # | Description | Link |
|-----------------|---|----------------------|
| 2CSC423011B0202 | GFEP Catalog | link |
| 1SXU430091L0201 | GFEP Info Tool | link |
| 1SXU430092L0201 | GFEP White Paper | link |
| F200-PROMOBX | F200 Residual Current Device Sample Box | |

<http://www.abb.us/product/seitp329/049b745436e76d52c12572aa0050b93f.aspx?productLanguage=us&country=US>

Contact us

ABB

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www.abb.us/lowvoltage

Cover image: Royal Caribbean's Oasis of the Seas, the largest cruise ship in the world, is equipped with an energy-efficient power and propulsion system from ABB. Three ABB Azipod propulsion units were installed, providing superior maneuverability and fuel efficiency.

Power and productivity
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