

Transparent Ready™ Web-enabled Power & Control

Transparent Ready™ enabled equipment allows customers to seamlessly connect all parts of an enterprise using Ethernet and the embedded modules in the equipment — from the AC drives with Transparent Ready equipment to power distribution equipment. And you manage all of it with minimal effort and reduced expense via a web browser that's built right into the system and is re-configurable to suit your needs with on board web screens.

Transparent Ready solutions can even include motor controllers with our exclusive Tesys® line of motor starters and contactors that can be connected via an Ethernet connection to the Transparent Ready system, if desired. We also help customers manage their power better with PowerLogic® power management systems designed to bring the power equipment to your desktop. System Manager™ software links it all together via the Transparent Ready protocol.

And if managing building automation systems is your concern, we have a wide array of solutions including proven Modicon® controllers and SCADA systems that can connect you to remote pumping stations and other devices. We also offer advanced I/O management systems, such as Advantys™, designed to help you concentrate I/O, saving panel space, and bringing greater intelligence to the system.



For technical assistance, contact your nearby Schneider Electric local field sales office, or visit www.us.SquareD.com/HVAC.

Schneider Electric – North American Operating Division
Industrial Automation & Controls
2641 Sumner Boulevard
Raleigh, NC 27616
Tel: 919-855-1100
Fax: 919-855-1104
www.us.SquareD.com/HVAC

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Merlin Gerin
Square D
Telemecanique

Commercial HVAC Applications

Combining World-Class Products with Global Support for the HVAC Industry



Schneider
 **Electric**

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Leading-edge motor control and circuit protection solutions to maximize HVAC equipment uptime

You need electrical components suppliers who can support your manufacturing wherever you do business — at home or internationally. Schneider Electric, through its major brands — Square D®, Telemecanique®, and Merlin Gerin® — is specifically geared toward the needs of global OEMs who manufacture for the HVAC market.

We offer comprehensive electrical distribution, circuit protection, machine and motor control, power management, lighting management and building management solutions.

Reliable circuit protection ensures reliable HVAC equipment

HVAC equipment OEMs expect reliable circuit protection for their equipment. Assuring that motors, controls and other equipment are adequately protected against voltage fluctuations and other electrical problems is our specialty. As a world leader in distributing and controlling power, Schneider Electric is uniquely well-suited to offer you the circuit protection products you need — when and where you need them.

Unitary applications in the HVAC market

For cooling towers, rooftop units, and air handlers we offer a range of control and circuit protection solutions, optimized to the conditions commonly found in these applications. Our years of experience in HVAC applications have helped us understand the need for products that withstand the duty cycles and have the durability you expect in commercial HVAC applications. The result is reduced warranty claims on critical system components such as AC drives, circuit breakers, disconnects and other electrical system components.

Our products are also sized appropriately to minimize panel space while still offering ruggedly-designed and built products that are up to the challenge. Our services also include factory authorized start-ups.

Many of our products are UL Listed. In fact, our motor controls and circuit breakers typically always exceed UL requirements. Internationally accepted, our products also meet or exceed IEC, NOM, CCC, and other relevant international standards. We support all of our products in over 135 countries around the world. So, whether you purchase the electrical component in Milwaukee or Beijing, it's not only the same product, it's available in any market. Working through a network of Schneider Electric offices, we cover the world with electrical solutions you can rely on. And, because our brands are globally accepted, you can be sure that a Square D® QO circuit breaker will meet customers' expectations the world over. Likewise, with our Telemecanique® line of control and automation products, a Tesys® D-Line contactor is the same around the world and is accepted everywhere.

Commitment to standards

Schneider Electric is not only committed to actively supporting relevant codes and standards, we also participate as an industry member in the development of NEC requirements and UL product standards. Schneider Electric is in direct support of the recently announced NEC Article 409 and UL 508A. Our products are tested to perform reliably as a system to meet the new code requirements.

Our commitment to this activity permits us to ensure our products and solutions not only align with published codes and standards, but exceed those requirements and meet our customer demands and expectations. The philosophy behind the Square D® and Telemecanique® product families has been to always put safety first. Schneider Electric is committed to electrical safety and providing our customers with UL Listed products and innovative solutions to support the safe construction and installation of control panels.

For more information on NEC Article 409 and UL 508A, visit www.SquareD.com/UL508A.

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Schneider Electric Key Benefits

- One global electrical equipment supplier who is capable of supplying all your needs.
- Dedicated, experienced applications and solutions team to assist you.
- Widely-accepted products and solutions in the building industry.
- Drives Competency Center provides rapid selection and quick quotation service.
- 24-hour technical telephone assistance.

Pumping Solutions

The experience to solve demanding water pumping applications



For years, the Square D® brand has been well-known in the pumping market as a reliable line of products for all kinds of pumping control applications. We not only have the experience to help you apply the right products for pumps and motors, we have a wide range of products ideally suited to this market. From reliable AC drives and combination starters that can be configured to suit your application needs to standard controls such as relays, motor starters and contactors. Choose from NEMA-type contactors and starters such as the Square D® Type S or the compact, intelligent Telemecanique® Tesys® line of IEC-type motor starting.

We also offer you the Modicon range of PLCs and world-class Telemecanique® brand PLCs for everything from simple, single motor/pump combinations to large-scale remote pumping applications.

Look to Schneider Electric to help you solve pumping application needs wherever pumping takes place.

World-class motor control solutions from the world leader in motor controls



Telemecanique® motor controls set the standard in starting motors in a variety of motor control applications around the world. From our Tesys® family offering 9 to 150A capacity in a range of sizes and capacities to the Tesys® D-Line offering advanced flexibility in a compact 45mm wide footprint with faster installation times. Choose the intelligent, simply smart U-Line integrated starter for applications where coordinated protection combined with a small footprint and advanced functions, like network connectivity, are required.

Breakers and Safety Switches

Reliable circuit protection ensures reliable HVAC equipment



The PowerPact® family of molded-case circuit breakers are your best solution for main power applications for pumps, blowers, and fans. Featured to the left are the new PowerPact® H-frame 150A and J-frame 250A circuit breakers. PowerPact® circuit breakers range in frame sizes from 15A to 250A and are available in a variety of configurations and interruption ratings. The PowerPact® accessories are common between the family and can be field-installed for last-minute changes.

Compact, user-friendly protection for all circuits minimizes HVAC equipment footprint



QO/QOB and QOU miniature circuit breakers for single- or three-phase applications are available with Visi-Trip® indicators. Compact and reliable for all kinds of circuit protection needs, they are UL-489 Listed and rated with HACR.

The proven, cost-effective disconnecting solution



Square D® safety switches combine durability with a proven, flexible design and economy in use. Our general duty safety switches are optimized for AC and other standard duty loads. They are available with a variety of accessories and configurations from 30A to 800A. Our heavy duty safety switches are designed for applications where maximum performance and continuity of service is required. In NEMA Type 1, 3R, 12 and stainless steel 4, 4X, 5.

Motor Starting

Reliable motor starting solutions are available worldwide

When you choose motor starting products, you want reliable and appropriate solutions to assure that the fan/pump motor starts when your customer calls for more air or water. We provide reliable, proven Square D® NEMA contactor/ starters and advanced Telemecanique® IEC contactor/starter/integrated starter solutions at Schneider Electric outlets worldwide. If your customer should need a replacement, it's close at hand.

Square D® NEMA starters are available in sizes 00-7 with a wide range of accessories for enclosed applications. Telemecanique® Tesys® motor starters are available up to 150A in a slim profile design that saves panel space.

Variable speed drives for the world's air handling problems

Square D® brand variable speed drives are among the world's best-accepted drive solutions for both commercial and industrial HVAC applications. Our drives are available in horsepower sizes ranging from fractional up to 500HP in panel mount construction, as well as Square D® brand packaged enclosures or motor control centers. Ideal for aftermarket and retrofit applications, our popular ATV58 split box design for the HVAC marketplace features a combination 100K AIC circuit breaker disconnect means with full voltage, full speed bypass control that can be field-adapted with the economy of a separate drive and options. Extensive communication options are also available to allow connectivity to popular industrial and building automation networks.

Motor Starting

Specialized enclosed drives designed for HVAC applications

The Econo-Flex® drives are tailored for commercial and industrial market specifications for pump and fan applications. The Econo-Flex® drive is the perfect solution for large HVAC systems where flexibility, functionality, structural integrity, ease of use, and reliability are concerns for the user. These enclosed drives are UL 508C and cUL Listed, available in NEMA Type 1, 12K and 3R enclosures and are pre-programmed for HVAC variable torque applications.

Improved pump and fan efficiency with solid state motor starting

Telemecanique brand soft starters may be used for smooth, energy-conserving ramp up or ramp down of large air handlers, pumps, blowers and other critical system components saving maintenance and critical mechanical repairs. Our Altistart® soft starters can also be used to manage pump and fan loads at a reduced level throughout the usage cycle, saving even more energy. Cost-effective, compact and available in a wide range of sizes, soft starters add efficiency to every commercial pump and fan application.

The Altistart® 48 Soft start offers advanced electronic soft start and soft stop performance with the exclusive Torque Control System (TCS). TCS minimizes mechanical stress on pipes by reducing water hammer usually found in large piping systems.