



# Royal

ELECTRIC  
OPTIMIZATION IS OUR PROFESSION

Schneider  
Electric

ABB



SPRINT ELECTRIC

SIEMENS  
Ingenuity for Life

PILZ  
THE SPIRIT OF SAFETY



تأسست شركة رويال إلكترونيك من قبل فريق من ذوي الخبرة العالية في مجالات المقاولات والتوريدات الكهربائية وحرصاً على التميز قامت الشركة بتوسيع قاعدة المنتجات والخدمات التي تقدمها لتشمل الآتي :



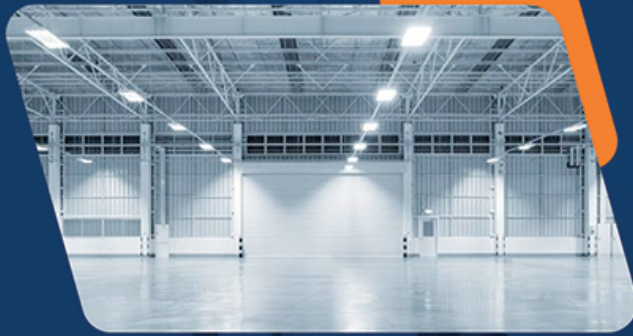
1-تصميم وتوريد وتركيب لوحات التوزيع الرئيسية والفرعية ولوحات معامل القدرة نغطي كافة أنواع لوحات توزيع الكهرباء التي تحتاجها جميع المنشآت، وتتمثل في :  
-لوحات عمومية  
-لوحات التوزيع الفرعية  
- لوحات ATS  
-لوحات Power Factor  
وذلك طبقاً للمواصفات والكود المصري

2-توريد وتركيب الكابلات الكهربائية وحوامل الكابلات بمختلف أنواعها



نوفر جميع أنواع المواسير وحوامل الكابلات مطابقة للمواصفات القياسية المصرية الخاصة بها أو (IEC) المناظرة لها وكذلك الكود المصري ومواصفات بنود أعمال التوصيلات والتركيبات الكهربائية في المباني والمنشآت.

3-تصميم وتوريد وتركيب أنظمة الإضاءة المختلفة



- تنفيذ جميع الأعمال بحيث تتطابق مع اشتراطات الكود المصري لأسس تصميم وشروط تنفيذ التوصيلات والتركيبات الكهربائية في المباني.  
- أن تكون جميع المواد والمهمات مطابقة للمواصفات القياسية المصرية، أو (IEC) في حالة عدم توافر مواصفات مصرية خاصة بتلك المواد أو المهمات.

4-تصميم وتوريد وبرمجة أنظمة التحكم الآلي للعديد من الصناعات المختلفة



لدينا خبرة كبيرة مع وحدات تحكمات شنايدر وسيمينز و ABB ؛ فقد قمنا بتوريد وتركيب لوحات وأنظمة تحكم آلي مع إنشاء برامج "SCADA" وأيضاً شاشات HMI

أغلب سابقة الاعمال في مجالات :  
- الصناعات الغذائية  
- الصناعات البلاستيكية  
- صناعة الغزل والنسيج  
- الصناعات البترولية و الكيميائية  
- صناعات البروسلين  
- الصناعات الحوائية  
- صناعات ورق وكرتون  
- الصناعات المعدنية





**Aircircuit breakers**

MasterPact air circuit-breakers (ACBs) protect the largest LV lines, carrying currents up to 6300 A.



**Moulded case circuit breakers**

ComPact molded case circuit breakers (MCCBs) protect cables sized for 32A to 3200 A.



**Earth leakage protection**

ComPact molded case circuit breakers (MCCBs) protect cables sized for 32A to 3200 A.



**Miniature circuit breakers**

miniature circuit breakers (MCB) protect circuits against short circuits and overcurrent faults.

**MOTOR PROTECTION AND CONTROL**



**Contactors**

TeSys, a range of reversing contactors and electrical magnetic switches, designed to make and break current for a variety of applications



**Manual motor starters**

The new generations of TeSys Motor Circuit Breakers offer a complete solution for almost any application.

New modern look & feel of all machines  
 Designed to meet the requirements of Electro  
 domestic and HVAC applications



Capacitor contactors



Power factor capacitors



Power factor Regulators



Detuned reactors

**Push buttons, selectors, pilot lights and joy sticks**

Our industrial wireless remote control offers are designed for intuitive & safe operation. Using 2.4 GHz license-free radio frequency, it is suitable for world-wide deployment.







**Human machine Interfaces (HMI)**

Easy to install, to set up and to operate, Schneider Electric's Human Machine Interfaces (HMI) provide a simple and effective means of connecting systems, collecting data and presenting information in a meaningful format.



**PLC, PAC and dedicated controllers**

Modicon PLCs (Programmable Logic Controllers) and PACs (Programmable Automation Controllers) control and monitor industrial operations in a sustainable, flexible, efficient and protected way.



**Machine variable speed drives**

Altivar Machine variable speed drives are designed to be compatible with the wide range of machines and their applications such as hoisting and cranes, pumps, fans, conveyors, textile, material handling/working, mixers, packaging and compressors.



**Process variable speed drives**

The Altivar Process is the next generation of variable speed drives, designed to deliver IIoT benefits for segments like Water & Wastewater, Mining & Metal, Oil & Gas, Food & Beverage, Marine or Hoisting.

**Measurements and instrumentation**



**Process liquid analysis**

Sensors, analyzers and transmitters for on-line measurements of pH, ORP, ion selective electrode activity, conductivity, and resistivity compressors.



**Temperature sensors**



**Flow meter**

Schneider Electric (formerly Foxboro) brand of magnetic, vortex and Coriolis technologies offer complete flow solutions.



**Level transmitters**

Schneider Electric (formerly Foxboro) popularized continuous liquid level applications with the d/p Cell in 1948.



### Air circuit breakers

Air circuit breakers are used as incoming-feeder, coupler, and outgoing-feeder circuit breakers in electrical systems in industry, buildings, and infrastructure applications.



### Moulded case circuit breakers

Siemens offers one of the most comprehensive line of low voltage circuit breakers on the market today. With current ratings from 125A to 2000A and interrupting ratings up to 200kA at 480V

### Minture circuit breakers

Siemens MCB is engineered to allow for easy deployment, quick installation and secure protection of industrial devices from excessive current flow.



## Motor protection & control



### Contactors

SIRIUS contactors offer real flexibility and are easy to use with simple tool and error free installation with either screw or spring-cage connection technology. SIRIUS contactors are also featured in Siemens' digital engineering and selection tools for virtual planning and design, allowing digital twin "Proof of Concept Testing".



### Overload relays

thermal and electronic overload relays are meet the requirements of IS/IEC 60947-4-1. They also offer protection against single phasing and unbalanced currents.

**V20**

The compact SINAMICS V20 is the frequency converter for simple motion sequences. covers the power range from 0.12 kW to 30 kW.



**G120C**

The SINAMICS G120C combines an extremely compact design with integrated safety function a it covers a power range from 0.55 to 132 kW.

**G120**

The SINAMICS G120 is a modular frequency converter for the most diverse drive tasks. The modular structure of the components and the wide power range from 0.55 to 250 kW



**G130 AND G150**

SINAMICS G130 chassis units and SINAMICS G150 cabinet units have been designed for variable-speed drives in machine building and plant construction.

**G180**

SINAMICS G180 are compact devices, cabinet systems and cabinet units (air and liquid cooled) for variable-speed drives in plant and machinery construction





### PLC S7 1200

SIMATIC S7-1200 controllers are the ideal choice when it comes to flexibly and efficiently performing automation tasks in the lower to medium performance range.



### S7 1500

Using the SIMATIC S7-1500 controller gives you top performance and built-in viability into the future. You can turn the most sophisticated machine designs into reality



### S7 distributed controller

Distributed Controllers are used for machines with a distributed architecture and for series machines with limited space available.



### HMI

From machine level visualization to SCADA systems - a portfolio that always meets your requirements. As your single-source provider, Siemens' human machine interface technology SIMATIC HMI is engineered to cope with the increasingly complex processes of your machines and systems.



**Circuit breakers**

ABB SACE meets the new grid requirements guaranteeing high quality and innovation as standard.

The world of the electrical power distribution changes fast and major new trends such as energy efficiency, connectivity and smart grids are now crowding onto the stage. These trends lead to new applications and market requirements



**Miniature circuit breakers (MCB)**

MCBs are equipped with two tripping mechanisms: the delayed thermal tripping mechanism for overload protection and the magnetic tripping mechanism for short circuit protection.



**Motor protection & control**

**Contactors**

ABB offers a comprehensive selection of contactors for simple and extreme application as well as products with specific purposes.



**Manual motor starters**

protectors (MMPs), are electromechanical protection devices for the main circuit. They are mainly used to switch motors ON/OFF manually and to provide fuseless protection against short-circuit, overload and phase failures.

**Overload relays**

The thermal overload relay can make up a compact starting solution together with contactors





### General purpose drives ACS 580

The ACS580 is plug-in ready to control your compressors, conveyors, mixers, pumps, centrifuges, fans and many other variable and constant torque applications in different industries. Many built-in control functions for simplified automation and process control. Energy efficiency features for optimal energy use. Connect to any automation system or use stand-alone



### Micro drives ACS 150

Take smooth performance to the next level with the wide power range and functionality of ACS150. Available in both single and three phase supplies. Many functions are standard, such as PID control, a built-in brake chopper and EMC filter. Power range 0.37 to 4 kW/0.5 to 5 Hp.



### Industrial drives ACS 880

With the ACS880 single drives you simplify your world and open all possibilities. You have complete flexibility and capability in wall-mounted or cabinet-built drives. All can be customized to your precise needs in industries such as oil and gas, mining, metals, chemicals, cement, power plants, material handling, pulp and paper, sawmills and marine.



### Industry specific drives

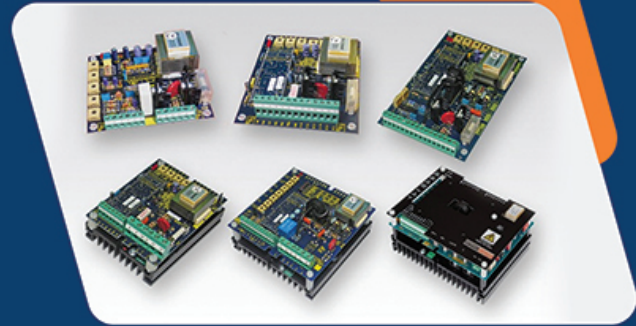
Try our drives that speak your language with tailor-made application software. Take your business forward with everything working like clockwork, thanks to the built-in expertise of our industry specific drives.

Dedicated drive solutions for industries such as HVAC, water and wastewater, elevators and escalators.



**Open Chassis Mount**

The Open Chassis-Mount DC Drives provide a more advanced IO option for motors rated up to 3.7/4/8/12/16/32/48A output current (0.55 up to 11kW motor power). The 370, 400, 400i, 800, 1200, 1600i Open Chassis-Mount DC Drives are available with 110-240VAC input as standard (3200i has 240-415VAC input as standard) and a 30-60VAC low voltage option providing 24 – 48VDC output.



**1200 series**

The 340/680/1220 series DC Drive provides effortless control of motors up to 1.8kW in a footprint from just 35mm x 105mm.

**XLV**

The XLV series is designed for precise speed control of small permanent magnet DC motors. Designed in a DIN-rail style package, the Drive allows for bi – or unipolar 0 – 10V speed / current reference.



**PLX**

The PL/X boasts the best power density from any comparable DC Drive on the market.

**JLX**

Upgrading your AC-slip ring motor application usually involves replacing the motor with a new motor and drive combination (expensive), or modifying the existing motor to allow a retrofit standard AC Drive..





## Safety switches

The safety switches PSEN meet these requirements effectively and economically and are therefore ideal for safety gate and position monitoring.



## Safety gate systems

Safety gate systems such as PSENmech with guard locking, PSENslock, PSENmlock and PSENs-gate are used for guard protection. They monitor doors in safety fences as well as covers and flaps.



## Safety camera systems

The safe camera systems are used to monitor 2D or 3D zones.



## Safety relays

The safety relays PNOZ monitor safety functions such as emergency stop, safety gates, light barriers, light curtains, two-hand controls, speed, standstill and much more besides.



## Optoelectronic sensors

Optoelectronic sensors provide optimum protection for plant and machinery when there is active intervention into the production process. Our offering of optoelectronic sensors ranges from PSENOpt light curtains to the safety laser scanner PSENscan.



## Safety radar systems

With radar systems you can monitor protection zones safely even when optical sensors reach their limits.

## Position sensors

- Inductive sensors
- Photoelectric sensors
- Capacitive sensors
- Magnetic sensors
- Ultrasonic sensors
- Valve sensors
- Cylinder sensors



- High-quality sensors for different applications.
- Excellent price/performance ratio.
- Versions for the use in hygienic applications.
- LED display to check operation, switching status & function.
- Extensive range of system components for easy & secure mounting
- Wide operating temperature range.
- High protection rating for the requirements of harsh industrial environments.
- Reliable detection due to low sensor tolerances.
- Reduced storage due to wide range of applications.

## Sensors for motion control

### - Encoders

- Compact and robust housing
- Designs to proven industrial standard
- Cable entry for axial and radial use
- Versions with integrated fieldbus interface
- Hollow shaft encoder for direct mounting on actuators



### - Inclination sensors

- Static and dynamic versions
- Angular ranges up to 360° available
- Versions with 1 or 2 axes
- Different designs with very high protection rating (up to IP 69K)
- Depending on the sensor type, signal output via different interfaces



### - Speed sensors

- 2 in 1 speed sensor and evaluation in one compact housing
- Particularly space-saving design
- Inductive or magnetic sensor principle
- Flexible combination of housings, connections and output signals







## Industrial imaging

### 2D Vision sensors

- Easy integration in the application
- Compact and robust housing
- for use as a stand-alone device
- Intuitive, user-friendly handling



### 3D Vision sensors

- Up to 38500 distance values per measurement for a detailed assessment of the application
- Different output functions configurable
- Visual assessment of distance, level or volume
- Predefined function blocks
- Reliable function due to time-of-flight measurement

## Process sensors

### - Level sensors

- High reliability due to the elimination of mechanical components
- Different function principles: Guided wave radar, capacitive and hydrostatic
- Devices for limit level detection or continuous level measurement
- Clearly visible LED display
- Suitable for all common industrial and process fluids



### - Pressure sensors / Vacuum sensors

- Sensors and transmitters with integrated evaluation
- Specially for the use in hygienic applications
- Excellent overload protection and long-term stability
- Measuring ranges of -1...600 bar
- Variable process connection using adap



### - Flow sensors / flow meters

- For liquids and gases
- Versions for the use in hygienic applications
- Variable process connection using adapters
- Flow monitoring also for aggressive media





## Identification systems

### RFID

- Wide range of interfaces for RFID evaluation units
- Robust antennas and ID tags with long writing / reading distance

### Optical identification

- Orientation-independent reading of 1D and 2D codes
- Recognition of more than 20 different code types
- Integrated code comparator system in the sensor
- For adjusting and monitoring vision sensors
- Ultra-flat or circular illumination units



## Power supplies

### 24 V DC power supplies

- Particularly space-saving design
- Low heating of the control cabinet
- High power reserves
- Safe switch-off by circuit breakers in case of short circuit
- Low inrush current

### Fuses

- For the permanent monitoring of the 24 V secondary circuit.
- Reliable switch-off in case of a fault.
- Modular and selective protection of machinery and plant.
- Clearly visible LED for indicating capacity utilisation, tripping and operation.
- Simple side-by-side installation due to flap mechanism.





## IO link

### IO-Link master

- For connection of up to eight IO-Link devices.
- Reliable transmission of machine data, process parameters & diagnostic data to the controller.
- Simultaneous data exchange with the controller and the IT world.
- Units for field applications and control cabinets with integrated fieldbus interface.

### IO-Link modules

- For the simple connection of binary sensors to any IO-Link master.
- Data and energy transmission also possible with unscreened connection cable.
- Clearly visible LEDs for displaying operation, switching status and error.
- Robust design with full potting for use in harsh industrial environments.
- Robust M12 connectors for connecting sensors and actuators.



في رويال إلكترونيك، لدينا حماس نحو عملنا ولدينا رؤية واضحة لكيفية القيام بذلك .  
الثقة هي أساس عملنا و نشاطنا وتفاعلاتنا ومعاملاتنا تبني الثقة داخل المجتمعات  
والشركات التي نخدمها.  
نحن شركة مسؤولة تسعى جاهدة لتحقيق ممارسات تجارية مستدامة وطويلة  
الأجل وإيجابية بكل مافي الكلمة من معنى.

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