



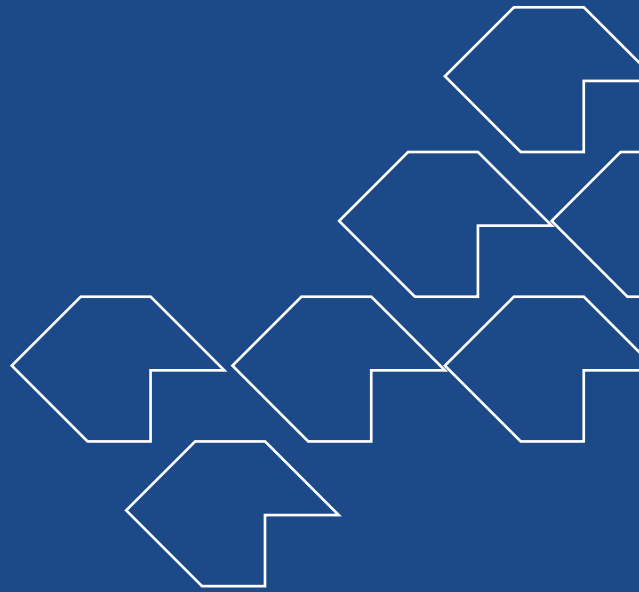
**AL GHANDI**  
ELECTRICAL & AUTOMATION



**الكندي**  
للكهربائيات و التشغيل الآلي

# A Premium Brand Portfolio 2021-2022

We represent some  
of the world renowned  
brands and operate from  
our three locations Dubai,  
Jebel Ali & Abu Dhabi.





## Introduction

### Al Ghandi Electrical & Automation

Al Ghandi Electrical & Automation is part of Al Ghandi Group of Companies which operates a number of business ventures and industries ranging from automotive, building materials, property, industrial machinery to consumer electronics.

Al Ghandi Electrical & Automation established in 1976, represents world-renowned low voltage electrical brands for over 44 years in the UAE & GCC region. Operating from three locations in the UAE – Dubai, Jebel Ali & Abu Dhabi. We offer premium electrical solutions, automation equipment as well as switchgear panel assembly.

**Our portfolio of products cover a large range under the categories listed below:**

- Enclosures
- Data Centre Infrastructure
- Cooling units
- Switchgear | Form 4 enclosures
- Industrial Automation
- Low Voltage Circuit Protection
- Control & Automation
- Measuring & Metering Devices
- Switching & Protection
- Power Distribution Solutions
- Junction Boxes
- Wiring Accessories & Cable Management
- Software



01

**Rittal**

Faster-Better-Everywhere.



## Enclosures-at-a-glance



### Small Enclosures

Small enclosures in a wide range of variants:

- Polycarbonate enclosures PK
- Aluminum enclosures GA
- Small enclosures KX, sheet steel in versions with or without gland plate
- E-boxes and bus enclosures.

The wall-mounted enclosures comply with maximum standards for the protection of electrical components in small controller applications. Protection category up to IP 66.



### Compact Enclosures

Compact enclosures, available in the following variants:

- Compact enclosures AX
- Plastic enclosures AX
- System enclosures SE

Extremely versatile for controller applications with moderate space requirements. Meets the highest standards of corrosion protection with a protection category of up to IP 66. The wall-mounted enclosures offer simple interior installation and flexible cable entry.



### Large Enclosures

The VX25 and TS8 baying enclosure systems and system enclosures SE feature a cleverly designed frame section. Installation may be implemented on two mounting levels to maximize the use of space inside the enclosure. The VX25 large enclosure system is also distinguished by its fully symmetrical frame section and significantly reduced complexity, with simplified, more consistent baying technologies

## Power Distribution

Power distribution from the smallest to the largest. The tried-and-trusted, super-flexible power distribution system for individual requirements.



## Busbar systems

RiLine busbar systems for individual switchgear and control gear. Complete solutions up to 1600 A for AC or DC applications.



## VX25 Ri4Power

A safe, design-tested low-voltage switchgear for machines, equipment and power distribution. Modular system for low-voltage switchgear with design verification to IEC 61 439-1/-2 and DIN EN 61 439-1/-2 for use as control gear and power distributors up to 5500 A



## Ri4Power ISV

Modular installation system for distribution enclosures. Design certificate is compliant with standard DIN EN 61 439-1/-2.



## Climate Control

Boost your efficiency and protect the environment at the same time with our energy-saving, eco-friendly climate control solutions for enclosures and machines.



### Cooling Units

Cooling units keep the enclosure internal temperature at a constant level, which is independent of the ambient temperature. The air routing meets individual requirements. Two separate circuits prevent the ingress of dust into the enclosure.



### Liquid Cooling

Efficient liquid cooling may be used in all situations where a high cooling load is required, such as process and machine cooling or when dissipating heat loss from enclosures via air/water heat exchangers.



### Enclosure Heater

Heaters ensure that the right thermal output is always available to prevent condensation, particularly with outdoor siting.



### Accessories for climate control

Perfectly coordinated components allow you to customize the climate control to your specific requirements. The efficiency and reliability of climate control components can be additionally enhanced with monitoring, control and individual air routing.

## IT Infrastructure



## IT Rack

IT rack systems, with our flexible system solutions, you will find the perfect rack for your individual requirements, covering all network applications, large and small. Future-centric solutions for your IT infrastructure are efficient, secure and scalable. Rittal supplies customized complete solutions across the entire spectrum, from micro data centers through to data centers in containers.



## VX IT

The solution for all network and server applications. Whether you need a network rack to house a distribution board, or server racks for an edge, colocation or hyperscale data center, the new VX IT is the ideal platform for accommodating a modern IT infrastructure and its many different requirements. The new VX IT is based on a modular concept with a customer-friendly configurator to guide you quickly and easily to a solution that is tailored to your individual requirements.



## IT Power

With the compact PDU, any IT rack is equipped with a professional power distribution system. Tool-free installation in the zero-U space of the IT server racks. The extensive power measurement and monitoring functions make the PDU an efficient, reliable investment.

## Edge Data Center Solutions



### Edge Data Center Solutions

This edge solution is perfect for production and IoT sensor data capture and for managing all types of data.

- Cooling of IT equipment with stand-alone enclosure solutions
- Rack-based cooling solution combined with 482.6 mm (19") rack extinguisher systems.
- Ideal for siting in small rooms
- For use in industrial environments

### Edge data center in a security safe

With its modular layout and option of dismantling and reassembly at any time, your edge data center expands to accommodate your growing requirements. The security safe provides complete protection from physical threats in a minimal space up to the required resistance class and ensures the requisite fail-safeness for automated production in Industry 4.0 environments.



### Edge data center in the medium output range

Smart cities, interconnected vehicles and streaming services bring with them the challenge of continuous availability of safety-relevant data. This calls for data centers with a maximum degree of fail-safeness. Edge data centers are the answer, being exceptionally energy-efficient with a small footprint.



### Edge data center in a security room

Innovative services provided by regional and local government demand the highest standards of security for storing sensitive citizen data and protecting it from manipulation, as well as real-time and long-term data processing. Additionally, data centers must often adapt flexibly to local situations and offer the option of dismantling and reassembly at another location. The modular, scalable edge data centers in the Rittal security room meet all these requirements – the optimum solution for efficient e-government applications.

## Automation System

Our range of solutions, from manual tools through to fully automated machine technology, will significantly accelerate your processes.



## Machining

Machines for fully automated milling and laser machining, plus machining of wiring ducts and busbars.



## Assembly

Automated manufacturing of terminal strips. Solutions for the automated cutting of support rails and automated assembly and printing of terminal blocks.



## Wire processing

Semi-automated and fully automated, pioneering solutions for wire machining and processing.



02

**Eaton**

Powering Business Worldwide



## LV Power Distribution Solutions



### DIN RAIL Components

- MCBs up to 125A rating in 1P, 2P, 3P and 4P versions and trip types B,C and D
- 4.5K, 6KA, 10KA and up to 25KA
- RCCBs up to 100A, 2P and 4P in 10mA, 30mA, 100mA and 300mA sensitivity
- 1 and 2 module RCBOs in 6KA and 10KA short-circuit rating
- Visual contact position indicator
- Switch-Disconnectors up to 125A rating in 1P, 2P, 3P, and 4P
- MCBs for DC applications with tripping characteristic C and rated current upto 50A
- MCBs complies with IEC 60898 and IEC/EN 60947-2 standard
- Guide for secure terminal connection
- Installation and removal of MCBs without removing the busbar
- Wide range of accessories and most items in a snap-on design



### AFDD

- The most comprehensive fire and shock protection device
- Fully integrated 3 in 1 device with Overcurrent/Short circuit, Earth leakage & Arc fault protection
- Protects people, property & assets
- Easy to operate
- Rated current: 10 up to 40A
- Configuration: 2-pole
- Rated breaking capacity: 6KA & 10KA
- Rated tripping current: 10mA & 30mA
- Tripping characteristics: B, C
- Sensitivity: AC, C



### Molded Case Circuit Breakers

- Rating up to 1600A in just 4 frame sizes for NZM series
- 1P, 3P and 4P versions
- Short-circuit breaking capacity up to 150KA
- Fixed, Plug-in and withdrawable types
- Field fittable breaker accessories with minimum variants
- Electronics release with communication facility and diagnostics functions
- Moulded Case Switch in 3P and 4P versions
- Protects cables, motors and generators
- Method of functioning and fitting of accessories is identical for every frame size
- Cost-effective compact BZM series circuit breakers in 1, 3, and 4 poles with capacity upto 400A
- Complies with IEC/EN 60947-2 standard



### Air Circuit Breaker

- Rating up to 6300A in just 3 frame sizes
- 3P and 4P version
- Fixed and draw-out options
- Field fittable accessories – Common from the complete range
- Programmable Trip units with display and communication facility
- Non-Auto option in 3P and 4P versions
- Complies with IEC/EN 60947-2 standards
- High withstand and interrupting ratings
- KEMA certified



### Motor Starters

- Mini contactors up to 12A
- Contactors up to 1600A AC-3 duty
- Contactors up to 2600A AC-1 duty
- 4P contactors up to 800A AC-1 duty
- Low power electric coils – field replaceable
- Thermal overload relays up to 630A
- Electronic overload relays up to 1500A
- Thermistor overload relays
- Motor protection circuit breakers up to 65A
- Non-reversing and reversing
- Rotary type to 65A
- Motor starters up to 30 KW with standard components
- Combined with busbar adapters
- Advantage through mounting rail adapter



### Variable Frequency Drives

- Machinery Micro Drives DE1 range 0.37–7.5 KW (400 VAC) for basic application that require variable frequency and advanced motor protection
- Machinery Compact Drives DC1 range 0.75–22 KW (400 VAC) for standard applications such as fans, pumps and conveyors
- Machinery Advance Drives DA1 range 0.75–250 KW (400 VAC) ideal for demanding applications that are speed and torque dependant
- Industrial General-Purpose Drives DG1 range 0.75 to 630 KW (400 VAC) Engineered for today's demanding commercial and industrial applications
- Micro general-purpose drives DM1 range 0.75–22 KW (400 VAC) for applications such as multi pump, fans, compressors and conveyors
- Industrial High-Performance Drives SPX range 0.55–75 KW (230 VAC) 0.75 KW – 1800 KW (400 VAC) Designed specifically for high-performance industrial applications featuring high processing power and the ability to use information from an encoder or a resolver to provide precise motor control

## Leading Control & Automation Solutions



### Command and Control Devices

- Pushbuttons, Selector Switches, Estops, Key operated actuators
- Indication Lights, Pushbutton stations, Palm switches and stack lights
- IP 66, IP 67 rated for use in harsh environments
- 22.5mm and 16mm devices
- General purpose AC and DC rated
- Field convertible features



### xEnergy LV Switchboards System

- Design verified low voltage switchgear assemblies
- Conforming to IEC 61439
- Form of separation up to Form 4b
- Rating up to 7100A, 690V, 50–60Hz in fixed/plug/withdrawable designs
- With 2 main busbar systems – TOP and REAR
- Degree of protection IP31 or IP42 or IP55
- Power section to mount ACBs and MCCBs–XP
- Fixed outgoer section to mount MCCBs and starters – XF
- Withdrawable outgoer sections to mount MCCBs and starters – XW
- Freely configurable general-purpose sections – XG
- Dimensioning tool xEnergy Configurator
- DEKRA certified
- xSpider software for dimensioning and calculation of LV Networks



### Distribution Boards & Panelboards

- Design verified to IEC 61439
- Up to IP 42 degree of protection
- SPN distribution boards rated up to 100A and available in 4, 6, 8, 10, 12, 14, 16 SP outgoing ways
- TPN distribution boards rated up to 125A/250A and available in 4,6,8,10,12,14,16,18 and 20 TP outgoing ways
- DEKRA certified
- Non-split and split types
- Flush and surface mounting types
- TPN Panelboards with 4,6,8,10,12,14, or 16 TP outgoing 250A/400A/630A/800A ways



### xComfort Flat Distribution Boards BF Series

- Flush/Surface mounted design based on 2-step principle (wall pan / mounting insert + door)
- 2- to 6-row @ 24mod. /row
- 4- to 6-row @ 33mod. /row
- Installation depth: 95mm
- RAL 9016 (white)
- Standard setup with Neutral and protective conductor terminals
- As media distribution board with micro-perforated MPL available



### Switch disconnectors

- Dumeco type DMV switch-disconnectors are available in 3-pole, 3-pole with solid neutral and in 4-pole designed for a rated operational voltage up to 690 Vac.
- Totally enclosed compact housing, made of non-tracking, heat resistant insulations material.
- Independent manual operation.
- Centrally located, interchangeable operating shaft.
- Heat resistant stainless-steel contact springs.
- Parallel knife-contacts with double break per phase.
- Visible contact separation.
- Various lengths of operating shafts and knobs or handles with escutcheon and door coupling and locking facilities in ON and OFF switch position are available.



### Overload relays

- Phase failure sensitivity to IEC/EN 60947, VDE 0660 Part 102
- Test/off pushbutton
- Reset pushbutton manual/auto
- Trip-free release
- Direct mounting

## Wiring Devices



### PREMERA

- Offers a modern aesthetic experience
- New white moulded range
- Optimal screw cap facility for unsightly screws
- Individual unit packaging offers dust and damage protection



### PREMERA MIX

New range of modular grid-based solutions with elements of a traditional grid range



### COPA

- Removeable Clip-On face plates that provide a practical solution when decorating
- Stylish and durable finishes to suit modern and traditional room interiors
- Available in metal and non-metallic options





### XTRA

- Surface Metalclad accessory range for any industrial or commercial project
- The coverplates are produced from high quality steel with epoxy powder coating for corrosion resistance



### COPA FIX

- New fixed COPA plate
- Alternative to the clip-on plate
- Same stylish look with a fixed plate



### PREMERA PROOF

- Weatherproof products offering IP 66 protection
- For outdoor or more arduous environments



Eaton - Wiring Devices

04

## Rockwell Automation



### Programmable Automation Controllers

- Modular and scalable systems
- SIL 2 and SIL 3 safety certified
- Extreme Environment (XT) and Conformal Coating



#### MicroLogix™

- Built-in LCD with backlight lets you view controller and I/O status
- As many as six embedded 100 kHz high-speed counters (only on controllers with DC inputs)
- Up to 128 KB for data logging and 64 KB for recipe



#### Micro800 PLC Family

- Offers 10–48-point controllers
- Includes 100 kHz speed high-speed counter (HSC)
- Provides embedded motion capabilities
- Provides embedded communications via USB programming port and non-isolated serial port
- Operates in  $-20...65\text{ }^{\circ}\text{C}$  ( $-4...149\text{ }^{\circ}\text{F}$ ) temperatures



#### CompactLogix™

- Ideal for small-to mid-size applications
- Offers support for Integrated Motion over EtherNet/IP™ for maximized scalability
- Provides support for Device Level Ring (DLR) network topologies to help increase network resiliency
- Removes the need for lithium batteries with built-in energy storage



#### ControlLogix™

- Includes inherent time-stamping capabilities
- Offers EtherNet/IP™ communication, including CIP Security and redundancy capability
- Offers comprehensive I/O diagnostics for detection of system and field-side failures
- Offers electronic keying to help prevent replacement errors



Flex I/O



Redundant I/O



POINT I/O

### Input/Output Devices

- Distributed Applications – Flex I/O, Point I/O™, Redundant I/O New white moulded range
- On-machine direct mount, reduced wiring costs, easy maintenance
- Safety – FLEX 5000™ I/O, POINT Guard I/O™ – reduced wiring costs and startup time, available for in-cabinet and on-machine applications
- Distributed/embedded – built-in-EtherNet/IP and DeviceNet™ support, IO-Link technology, optional DeviceLogix™ Smart Component Technology

### Motion Control

- Servo drives for a broad range of applications
- Rotary and linear servo motors
- Linear actuators and stages for flexible servo control
- Absolute encoders for closed-loop control systems
- Incremental optical encoders provide low cost, small size, high frequency and high resolution



### Operator Interfaces and Industrial Computers

- Computers for all environments
- ATEX and UL-rated for hazardous locations
- Industrial environment, non-display and integrated display computers
- Graphic terminals with dual Ethernet ports for Device Level Ring (DLR) topologies
- Industrial flat panel, LCD monitors – Class I, Division 2 locations



### Industrial Networks Infrastructure and Ethernet Media

Stratix Switches: unmanaged and managed Ethernet switches



### Condition and Energy Monitoring

- Condition Monitoring – Integrated condition monitoring on the EtherNet/IP network
- Energy Monitoring – Energy monitoring on the EtherNet/IP network



### Sensors and Safety

- Smart Sensors
- Smart Safety


Enclosures




Junction boxes



Power distribution solutions






Switching and protection




Measuring and metering devices


Industrial Automation




Data centre infrastructure






Cooling units




Form 4 Enclosures

Wiring accessories & cable management

Circuit protection




Control and automation






### IC Components

We offer a full line of versatile and robust industrial controls for both IEC and NEMA applications. Our light industrial IEC starters are environmentally friendly, versatile and flexible. Our heavy-duty NEMA starters are renowned for rugged construction, dependable performance and long electrical life.



### PowerFlex Drives

#### Motor Control

- Motor Control Centers
- Low Voltage Drives
- Medium Voltage Drives

### Software

Allen Bradley® software products support our intelligent I/O modules, portable data collectors, PowerFlex® drives, servo drives and motors, motor control centers, programmable controllers, and sensors.





### Vuforia Chalk

Vuforia Chalk is a powerful collaboration and communication tool for your organization's experts to provide real-time assistance to technicians facing complex or unfamiliar challenges. It makes it easy to help anyone, from anywhere, when you can't be together. Share a live view of a problem, talk about it, use Vuforia Chalk to provide clear instructions.



### Studio 5000

The Studio 5000® environment combines elements of automation system design into one standard framework that optimizes productivity and reduces time to commission. This intuitive integrated design environment focuses on rapid design, re-use, collaboration and virtual design.



### FactoryTalk

FactoryTalk® software is built to support an ecosystem of advanced industrial applications, including IoT. It offers cutting edge design, maximizes operational efficiencies, and delivers predictive and augmented maintenance advantages.



### Connected Components Workbench

Connected Components Workbench™ design and configuration software offers controller programming, device configuration, and integration with HMI editor. It is based on proven Rockwell Automation and Microsoft Visual Studio technology, and is Easy to Configure, Program and Easy to Visualize.



### Design Suite Toolkits

The Rockwell Automation Toolkits supply the software development and productivity tools needed to design, develop, and deliver Rockwell Automation control systems. These various toolkits are intended to align with the control architecture and technology platforms used by your company.



### ThinManager

ThinManager is a centralized device management and content delivery platform. With ThinManager, you can centrally manage devices like thin clients, mobile devices and PCs for the modern factory and office, as well as define and deliver a number of flexible content sources to those managed devices.



### PlantPAx™

PlantPAx is Rockwell Automation's DCS (Distributed Control System). The PlantPAx system uses a common automation platform for seamless integration between critical areas of your plant. This modern DCS connects process, discrete, power, information, and safety control into one plant-wide infrastructure

04

**Hensel**

Passion for Power

**HENSEL**

## Junction Boxes



### For Normal and Protected Outdoor

- Cable entry via integrated elastic membranes up to IP 66, alternatively, a cable gland can be used after removing the elastic membrane
- Multi-level knockouts for cable glands in different sizes
- Degree of protection: IP 66
- Material: Polypropylene or polycarbonate
- Burning behaviour: Glow wire test accordingly to IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- Colour: Grey, RAL 7035 or Black RAL 9011 upto 10 sq mm



### Weatherproof for Outdoor Installation

- Degree of protection IP 66 / IP 67 / IP 69 with cable glands, temporary submersion up to 1 meter, max. 15 minutes
- Halogen-free: Low toxicity, low fume development
- Weatherproof: UV resistant, rainproof, temperature resistant material: polycarbonate with GFS
- Burning behaviour: Glow wire test according to IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- Colour: Grey, RAL 7035 or black, RAL 9011



### DK Cable Junction Boxes Tested for Intrinsic Fire Resistance

- Intrinsic fire resistance E30-E90 according to DIN 4120 Part 12
- Insulation integrity PH 120 according to BS EN 50200 in combination with insulating retaining cables
- Included screw anchors, connecting terminal made form ceramic with resistance to high temperatures E30 – E90 and cable entries as standard, multi-level knockouts for cable glands in different sizes, material: Polycarbonate with GFS, IP66
- Colour: Orange RAL 2003

## Distribution Board



### KV Small-Type Distribution Boards

- Small-type distribution board up to IP 65
- For DIN-rail mounted devices up to 63 A accordingly to DIN 43 880
- Operation and access by unskilled persons
- In accordance with DIN EN 60 670-24



### Load Centers up to 250 A

Safe and reliable in harsh environments. For use with devices from different manufacturers

- Dust-proof, protected against water IP 66
- High impact resistance IK 08 (5 Joule)
- Protected outdoor installation and harsh environment
- Protection class I, protection earth connection suitable for metal armored cables, RAL 7035
- Flame-retardant, self-extinguishing glow wire test 960 °C
- Corrosion proof, silicone and halogen-free
- UV resistance according to IEC 61439, chemical resistance against acid 10%, alkaline 10%, petrol and mineral oil



### Mi Power Distribution Boards up to 630 A

- According to IEC 61 439-2
- Degree of protection IP 65 protection class II
- EMC compliant busbar system
- Certified by ASTA
- Suitable for indoor installation and outdoor installation
- Pre-assembled enclosures with standardized kits up to 630 A

05

# Lovato Electric

Energy and Automation



## Energy Management & Applications

Meters, Controllers and Communicating components with dedicated Software and applications for Energy Management; with latest communication protocols and options – Synergy Software for Lovato and 3rd party equipment.

## Energy Management

Hardware and software applications for energy management with ALC possible latest communication options – synergy software

## ATS, Power Factor & Generator Controllers



Controllers for ATS functions with communication. Power factor correction regulators with expansion modules up to 24A steps. Controllers for AMF, generator protection, synchronization modules.

## Regulated Power Supplies and Battery Chargers



Battery chargers up to 12A, 12V, 24V, & 30V for lead-acid and nickel CAD batteries. Regulated power supplies up to 40A, 12V & 24V for automation



## Contactors and Overload Relays

Contactors from 9A to 1600A, 3 Pole/4 Pole, AC/DC application. Related overload relays.



## Digital Multi-Function & Energy Meters

Latest digital multi-function meters and analysers with communication and expansion modules. LCD display and expandable with latest 'IR' port. Possibility of remote monitoring and control through Wi-Fi.



## Current Transformers

Solid core and split core C.T's rated up to 4000A, class 1,0.5 and 0.55

06

**Socomec**

Innovative Power Solutions

**socomec**  
Innovative Power Solutions**MEDSYS 30CD (IPS PANEL)**

Solution for the continuity and availability of the power supply in group 2 medical location

Standard IEC 60364-7-710 defines medical equipment or an applied part which in normal use:

- Necessarily comes into physical contact with the patient for the equipment to perform its function
- Can be brought into contact with the patient
- Needs to be touched by the patient.

**Automatic Transfer Switch**

Automatic transfer switch ATySr / ATyS p. ATyS S motorized C/O switches from 125A – 3200A

Also available is remote operated transfer switching equipment from 4000A – 6300A

A complete range of automatic transfer switch from 40-160A

ATyS gM, ATyS pM

125A- 3200A ATyS g, ATyS p

**Energy Management Devices****DIRIS / COUNTIS / DIGIWARE**

Complete solutions for the energy management and BMS systems which includes MFM meters and software

**Changeover Switches****Manual Changeover Switches**

- Sirco VM & SIRCOVER range of manual changeover switches 25A – 3200A
- SIRCOVER 1-0-11
- SIRCOVER 1-1+11-11
- COMO CS

**Load Break Switches**

- SIRCO, SIRCO M & MV load break switches 16 – 160A
- Sirco load break switches 125A – 5000A 3P/4P

**Motorised Changeover Switches**

ATyS range of motorized changeover switches from ATyS dM 40A – 160A

ATyS d, ATyS r 125-3200A



### Fuse Combination Switches

Switching & protection achieved through highly reliable fuse technology. Range 20A – 1250A



### DIRIS Digiware

Energy measurement and monitoring system that revolutionizes electrical solutions



### ATS Double line Bypass Solutions

From 40 A – 3200A ATS bypass solution are CE marked and fully compliant with the international IEC Std. IEC 60947-6-1  
IEC 61439-2



### AtyS Controller

ATyS C55 is a complete ATSE controller that can be used to pilot a remotely operated transfer switch of any technology: motorised switches (e.g. ATyS r, ATyS S or ATyS d M), circuit breakers or contactors.



ATS Double line Bypass Solutions

07

# Landis + Gyr

Manage Energy Better

# Landis+Gyr

## E350 Series

### Simple Stand-alone Residential Meters

(Direct Connections, electronic 1ph/3ph)

Designed to make management of energy consumption and metering information easier and more efficient



## E360 Series

### Residential Meters with Communication Options

E360 Series 1 LTE is the latest state-of-the-art residential smart meter from Landis+Gyr. It provides flexible local and remote communications for the IoT (Internet of Things) world.

E360 Series 1 LTE is a future-proof instrument with powerful e-metering, network monitoring, multi-utility and consumer information functionalities.



## E650 Series

### Commercial & Industrial Meter

3ph electronic meters with comprehensive metering and memory options, high precision and a secure investment for mid-sized and large industrial applications.



## E850 Series

### High Precision Meters

Extended functionality and highest precision metering accuracy for grids and high energy consumption points.



08

**Terasaki**

Innovators in Protection Technology



## Retrofit Concept

Retrofitting refers to the addition of new technology to older systems. Retrofit ACBs can replace ageing, unsafe switches and circuit breakers.

### Tested to current standard:

ASTA tested to IEC 61439 for short-circuit withstand (Icw) GEC MPact Ellison English Electric. We design retrofit ACBs on request. If you are interested in a brand which is not shown below we would be happy to examine it. New designs are continually added to our portfolio.

Terasaki	Gerin	Square D	English Electric
Ellison	Siemens	Mitsubishi	MEM
GEC	AEG	ABB	Klockner Moeller
Merlin	Unelec	Hyundai	Sace



### TemPower2

#### Air Circuit Breakers (ACBs)

800A – 6300A The ultimate in compactness and operational capability with short-circuit withstand rating for all ACBs Icw, 1 sec=Ics



### Modular ELCBs, MCBs, Isolators & Contactors

Final distribution products from 0.5A – 100A for use in final distribution circuits in industrial, commercial & residential buildings



### TemContact 2

#### Contactors

A range of magnetic contactors and thermal overload relays. Current ratings from 6A to 800A are available in 9 frame sizes and in 3 and 4 pole versions. It has upgraded insulation voltage (increased from 690 to 1000V AC) impulse withstand voltage (increased from 6 to 8KV in contactors over 40A



### TemBreak2 & Tembreak MCCBs

16A – 1600A the ultimate safety breaker with safety lock for plug-in versions, superior temperature performance & colored indicators to display the ON/OFF status

09

Gifas

GIFAS  
ELECTRIC**Floor Socket**

- Heavy duty floor socket outlets from aluminium – suitable for drive over in closed position
- For indoor installation (or weather protected outdoor areas)
- Can be equipped with single phase, three phase or data outlets (project specific)
- Broad product range: Masso, Fonto (pop-up or with hinged lids)
- Application areas: car showrooms, shopping malls, museums, airports etc.

**Masso****Fonto****Underground Power Distributors**

- Underfloor power distributors for outdoor installation
- Almost invisible when not in use (fillable cover)
- Quick and easy opening thanks to gas struts
- Cable outlet allows closing of lid when plugged in
- Protection against vandalism thanks to lockable cover
- Project specific design (dimension, load class, outlets, fuses)
- Broad product range: Campetto, Vesuvio, Piazza
- Application areas: landscape area, parks, market places, food stalls, exhibition areas, harbours, hangars etc.

**Recessed Mounted Power Cabinets**

- Recessed mounted stainless steel power cabinet for outdoor installation
- Protection against vandalism thanks to lockable cover
- Cable outlet allows closing of door when plugged in
- Project specific design (dimension, outlets, fuses)
- Single or three phase, up to 63A
- Application areas: landscape area, parks, market places, food stalls, exhibition areas, etc.

**Power Columns**

- Stainless steel power columns for outdoor installation
- Protection against vandalism thanks to lockable door
- Cable outlet allows closing of door when plugged in
- Project specific design (dimension, colour, load class, outlets, fuses)
- Single or three phase, up to 63A
- Broad product range: Rondo, Quadro
- Application areas: landscape area, parks, market places, food stalls, exhibition areas, etc.

# 10 Elektra



## Weatherproof Isolators

- 16 – 1250Amp
- Front or Side handle operation
- PC, Aluminum, Sheet Steel and Stainless-Steel enclosures
- IP 65 or IP 67



## Fire Rated Isolators

- 25 – 1250Amp
- F200
- RAL 3000 or RAL 7035



## CEE Plugs and sockets

- 16 – 125Amp
- IP44 & IP67
- Disconnectable socket outlets



## Rotary cam switches

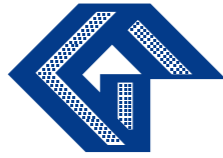
- 20 – 250Amp
- Front-, Base- or Single hole mounting
- All kind of enclosures
- Key operated
- Customised solutions



## Load-Break switches

- 16 – 250Amps
- Din rail mounting for switch cabinet

**AL GHANDI**  
SWITCHGEARS INDUSTRY



الكندي  
لصناعة المفاتيح الكهربائية

11

## Al Ghandi Switchgear Industry



## Al Ghandi Switchgear Industry

Al Ghandi Switchgears Industry, established in 1985 is one of the leading manufacturers of low-voltage switchgear products in the UAE with specialization in design, manufacture and testing for a variety of applications.

We undertake servicing of installed switchgear and enter into annual maintenance contracts for various low voltage installations.





## Eaton Authorised Panel Builder – Eaton xEnergy

Eaton xEnergy provides the optimum solution for low voltage switchgear and control gear assemblies up to 6300 A.

Every single functional module in this switchgear assembly is perfectly prepared and systematically planned – from the switchgear and mounting system technology to the enclosures and design software tools.

We have type tested our design as per IEC 61439-3 as per the latest requirements of ADQCC Abu Dhabi, UAE.



## VX25 Ri4Power Enclosure System From Rittal

VX25 Ri4Power 185 mm is the system for manufacturing safe, low-voltage switchgear or power distributors with design verification in line with IEC 61439. We have type tested our design as per IEC 61439-3 as per the latest requirements of ADQCC Abu Dhabi, UAE. It can be optimally integrated into the new Rittal VX25 large enclosure system. Standardised installation kits for every enclosure width make it easier to assemble, particularly because no holes need to be drilled.

The VX25 Ri4Power is suitable for use with open and compact circuit-breakers from all well-known manufacturers, including ABB, Eaton, General Electric, Mitsubishi, Schneider Electric, Siemens, LSIS and Terasaki.



## ATS Panels, Low Voltage Panels Approved by MOID

SOCOMEK proposes a complete enclosed ATyS Bypass range from 40 to 3200 A (4 poles in standard & 3 poles on request)

LOVAG /ASEFA Third-party-certified in accordance with IEC 61439:

IEC 60947-6-1: Multiple function equipment transfer switching equipment.



## Street lighting Feeder Pillars for RTA

Approved RTA Vendor for the last 25 years and have supplied feeder pillars to Dubai's Road Projects.



## EPLAN for Engineering Industry

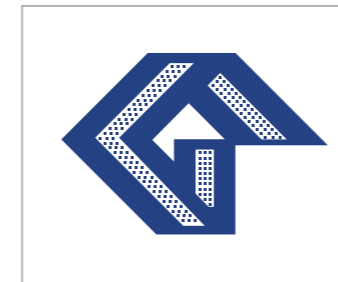
EPLAN Electric P8 software and AutoCAD for design, project planning, documentation ensures comprehensive documentation system and provides subsequent phases of the project, such as production, assembly, commissioning and service with the data required.

## Al Ghandi Switchgear Division

### Low Voltage Switchgear Servicing

Servicing of installed switchgear and provide annual maintenance contracts for switchgear installations

- Conduct thermal imaging to find overheating issues in switchgear panels and recommend corrective actions for safe functioning of electrical panels
- Harmonic study, design and commissioning support for smart metering for commercial establishments
- ACB secondary injection test and servicing
- VFD programming and testing



### Retrofit Services

We arrange retrofit of your ACBs from various manufacturers like Terasaki, Ellison, Gec, Schneider, Merlin Gerin, Siemens, Unelec, Square D, Mitsubishi, Sace, ABB, Hyundai, AEG, English Electric, Unelec CN-CS2, Terasaki Tempower2, Retrofit ACB Ellison GEA and Merlin Gerin DA 4000.



- Site survey conducted for all retrofit projects
- 3rd party verified to IEC 61439 - Part 1 & 2
- No existing busbar modification
- Installation time will be 4-6 hours per ACB

### Our Projects



EXPO 2020



Dubai Hills



Dubai Frame



Presidential Palace, Abu Dhabi



Dubai Metro



Aljada, Sharjah



Dubai Parks and Resorts



Louvre, Abu Dhabi



Al Zahia, Sharjah



City Walk Dubai

## Showroom / Branch Office

### Abu Dhabi

Shop No-1 & 2, Block C, Plot #14,  
Sector M-44, Musaffah Industrial Area  
Tel: +97125538919  
Fax: +97125538918  
Email: abudhabi@alghandiea.com

### Jebel Ali

Al Ghandi Switchgears Industry  
Jebel Ali Free Zone.

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## Head Office

### Dubai

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