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## Welcome

### Dear Customer ,

Welcome to our **Second Newsletter** ,We are glad to share with you our interested news , all of which we hope have helped to keep you updated on our news .

We want this newsletter to be valuable for you , so please share your feedback and suggestions to help us improve.

## SIEMENS G120X

### Do you want a system that is always easy to setup?

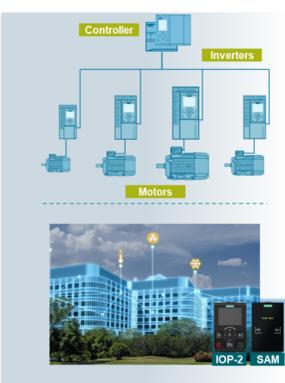
#### Solution

Our SINAMICS G120X ...

...is ready to switch on: out-of-the-box

...has user friendly interfaces and branch specific wizards

...can be easily configured with accessories & components from a single provider



#### Highlights

- Seamless concept up to 630kW / 700HP
- Preconfigured drive, compact and ready to switch on
- Colored panel allows easy identification of faults and alarm messages
- Smart Access Module via Wi-Fi enables easy setup at up to 50m distance range

**Time saving and easy due to intuitive user interfaces**

### Is cost efficiency, high quality & robustness important for you? We have the answer!

#### Solution

Our SINAMICS G120X ...

...is grid friendly with low impact on the power quality

...supports high efficiency motors<sup>1</sup>: PMSM + SRM

...offers several voltage classes<sup>2</sup>



<sup>1</sup> Refer to the manual  
<sup>2</sup> 3AC 200V, 400V, 690V  
<sup>3</sup> For FSH.J refer to the manual

#### Highlights

- Integrated full DC-link choke assures reduced harmonics (IEC 61800-3-12)
- Flexible operation of high efficiency motors to ensure more energy saving
- Overload capability: 110%/60s<sup>1</sup> or 135%/3s<sup>1</sup>; HO rating<sup>3</sup>: 150%/60s

PMSM: Permanent Magnet Synchronous Motor  
SRM: Synchronous Reluctance Motor  
HO: High Overload

## PHOENIX CONTACT

### Current measurement

#### Converting and measuring

Whether for a new installation or for quick and easy retrofitting: our current transformers offer a comprehensive product range for converting alternating currents up to 4000 A into low secondary currents. The current and voltage transducers can be used to convert direct, alternating, and distorted currents and voltages into a standard analog signal.

#### Your advantages

- Easily retrofit current measuring technology, without having to remove system parts, with current transformers for retrofitting
- Convert currents **up to 4000 A with over 3000** window-type and winding current transformer versions
- Precise mapping of small input current ranges using programmable AC/DC measuring transducers **up to 55 A**
- Measurement of high currents with any waveform, thanks to universal AC/DC measuring transducer **up to 600 A**
- Precise acquisition of sinusoidal alternating currents using adjustable AC measuring transducers **up to 12 A** that can be supplied flexibly
- Convenient installation or retrofitting even when measuring distorted currents, thanks to hinged AC measuring transducer **up to 400 A**



#### Fast installation in a confined space: PACT RCP current transformers for retrofitting

##### Quick and easy installation

PACT RCP current transformers for retrofitting can be conveniently mounted where there is not enough space for split core current transformers. Acquire alternating currents up to 4000 A AC with the universal current measuring system. Benefit from fast installation that does not require you to remove system parts.

#### Extremely versatile: PACT current transformers

PACT window-type and winding current transformers offer a complete product range for converting alternating currents up to 4000 A into secondary currents of 1 A and 5 A. PACT current transformers are available in different transformation ratios, accuracy classes, and rated power values – in a total of 3300 versions, for your current measurement requirements

## I/O Link – TURCK

### What is IO-Link?

IO Link is an open communication standard for sensors and actuators – defined by the Profibus User Organization (PNO).

#### Technology

IO-Link is based on a point-to-point connection between the sensor/actuator and an interface module. Parameter and diagnostics data is transmitted in addition to the cyclic operating data for the connected sensors/actuators.

#### Integration in Profinet systems

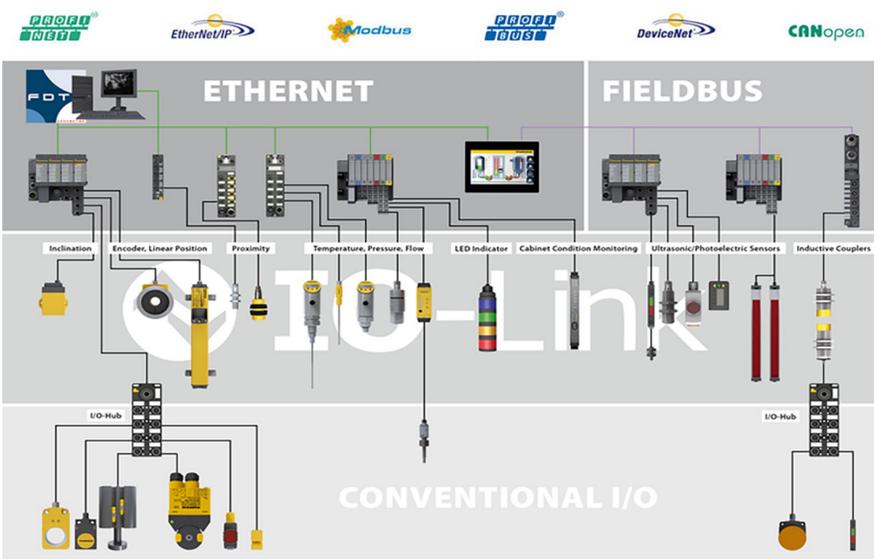
Turck now provides help with a new function. SIDI (Simple IO-Link Device Integration) enables IO-Link devices to be integrated directly in a Profinet engineering software such as the TIA Portal.

#### Advantages:

Efficient Processes + IO-Link Reduces Machine Costs + Improved Machine Availability.

#### IO-Link Products:

IO-Link Starter Kit + Inductive Sensors + Photoelectric Sensors + Ultrasonic Sensors + Linear Position Sensors + Rotary Sensors + Inclination Sensors + Pressure Sensors + Temperature Sensors



#### Applications:

Easy connection of complex IO-Link sensors/actuators with a large number of parameters and diagnostic data to the control system.

Replacement of sensor boxes for connecting binary sensors with the IO-Link input modules optimized in terms of cabling.

Wiring-optimized connection of controls to the control system.

Simple transmission of energy values from the device to the control system for integration into a user program or energy management.

In these cases, all the diagnostics data is transmitted to the higher-level control system through IO Link. Parameter setting can be adjusted during operation.

#### Compatibility of IO-Link:

IO-Link ensures compatibility between IO-Link-capable modules and standard modules.

#### Analogue signals:

Another advantage of IO-Link technology is that analogue signals are already digitized in the IO-Link sensor itself and are digitally transmitted via IO-Link communication.

As the result, faults are prevented and there is no extra cost for cable shielding.

#### Enhanced through IO-Link input modules:

IO-Link compatibility also permits connection of standard sensors/actuators, i.e., conventional sensors/actuators can also be connected to IO-Link.

This is particularly effective with the IO-Link input modules, which allow several sensors to be connected at one time via a cable to the controller.

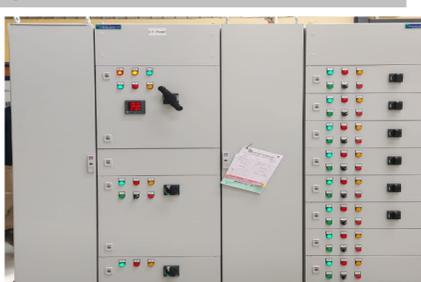
## GASCO Project

### Air compressor new switchgear panel Form 3 MCC

Panels .. using **RITTAL R14Power** type tested enclosures with partial doors , meets the criteria of IEC

**61439 1000 A** outdoor panel ,short circuit **50KA**

**GASCO factory –Alexandria**



## Alex Seed



### Our first project delivered by using QR Code

**MCC & Automation panel 2500 A** -Including soft starters. Automation system with **290 I/O's**

using **Schneider modicon X-80 PLC**

By using **QR Code system** you can scan the code to get all data and **QR code** document you need to install, Start up, Troubleshooting and Maintenance.

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