

Solution Brochure

# GENERAL INDUSTRY



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# AIMS TO BE THE BEST PARTNER IN DELIVERING CUSTOMIZED DOWNHOLE AND SURFACE SYSTEM SERVICES AND DISTINCTIVE POWER SOLUTIONS

## Our Mission



Provide exceptional expertise: Offer industry-leading knowledge and expertise in downhole & surface services and power solutions.



Customized services and solutions to meet customer's unique needs



Foster strong partnerships: Cultivating long-term relationships, collaborating to address challenges and mutual benefits



Ensure operational excellence: Maintain high standards of quality, safety, and efficiency in our services.

## WHY CHOOSE US?

We Provide customized services and solutions to meet customer's unique needs.

## OUR STORY

At Alenntronics, driven by a collective passion for revolutionizing the oil and gas sector. Founded in Year 2020 by industry experts, our mission from day one has been to introduce innovation and sustainability to this vital industry.

Alenntronics partners with electrical and machinery OEMs worldwide, to offer both stand alone and integrated harmonics mitigation and power quality solutions. With over 10 years of experience in solving complex power quality problems, Alenntronics has the expertise to design the right solution for you.

## OUR VISION

Aims To be the best PARTNER in delivering customized Downhole and Surface System Services and Distinctive Power Solutions

## contact us



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## VSD - VARIABLE SPEED DRIVE

### **Alenn E-2000: The Ultimate Variable-Frequency AC Drive for Optimum Motor Control**

The Alenn E-2000 Variable-Frequency AC Drive is a game-changer in the world of motor control solutions. With its advanced technologies and user-friendly features, this drive offers unparalleled performance, flexibility, and ease of installation. In this comprehensive article, we will delve into the key features and benefits of the Alenn E-2000, providing you with a detailed understanding of why it is the go-to choice for efficient motor control.

#### **Performance:**

The Alenn E-2000 is designed to accommodate a broad range of performance requirements. It utilizes high-switching-frequency IGBT devices for smooth and quiet operation, ensuring enhanced torque performance. With its digital current regulator and digital space vector control, the drive minimizes motor noise and reduces current ripple, resulting in optimal motor performance. Additionally, the flux vector control feature provides full starting torque and full torque to base speed, allowing for efficient motor operation.

#### **Flexibility:**

One of the standout features of the Alenn E-2000 is its variable-frequency operation, which enables simple control of motor speed. This flexibility allows for precise adjustment of motor performance to meet specific application requirements. Moreover, the drive offers user-programmable analog and digital inputs and outputs, providing customization options for seamless integration into various systems.

#### **Ease of Installation, Setup, and Maintenance:**

The Alenn E-2000 is designed with ease of use in mind. Its automated setup features eliminate the need for chart recorders or meters, simplifying the installation process. Additionally, the drive features through-hole heatsink mounting of chassis units, allowing for efficient heat dissipation externally. This design ensures optimal performance and longevity of the drive.

#### **Reliability and Durability:**

The Alenn E-2000 is built to last. With its integral DC link choke, the drive achieves high power factor and low total harmonic distortion, ensuring reliable and efficient operation. Furthermore, the optional NEMA 1 and NEMA 4 enclosures provide protection against environmental factors, making the drive suitable for a wide range of applications.



## VSD - VARIABLE SPEED DRIVE

### Alenn E-2000: Specification

- Enclosure NEMA 4X
- Flux Vector Mode
- Capacity 150KVA
- Output Frequency 0-70Hz
- Number of pulse 6 Pulse
- Integrated with Sinewave filter
- Input voltage 380 VAC-415VAC
- Comm Protocol UTY-Line II Series



## POWERSAVE AP2S-82

### Power Save Alenntronics AP2S-82

The **Power Save AP2S-82** boasts a unique design and advanced features that enable it to deliver unparalleled performance in power quality improvement. By effectively controlling voltage and current harmonics, this device optimizes the power factor and reduces the percentage of total harmonic distortion (THD) in the system. The result is a more stable and efficient power supply, leading to numerous benefits for businesses across various industries. One of the key advantages of the Alenntronics Power Save AP2S-82 is its ability to significantly reduce energy costs. By improving power factor and reducing THD, businesses can experience substantial energy savings, resulting in lower electricity bills and improved profitability.

In fact, a real-world example demonstrates that by simply selecting the Power Save option, businesses can witness a remarkable improvement in **power factor**, leading to a reduced demand for power and subsequent savings in both capital expenditure and fuel consumption. Moreover, **the Power Save AP2S-82 is built to withstand the harshest conditions and the most challenging applications.**

Its high-quality components and robust design ensure reliable performance even in demanding industrial environments. This durability, coupled with its field-proven track record, has made the Power Save AP2S-82 a trusted choice for businesses worldwide. The benefits of the Alenntronics Power Save AP2S-82 extend beyond cost savings.

By improving power quality, businesses can enhance the overall performance and lifespan of their equipment. The device's ability to stabilize voltage and current harmonics safeguards sensitive machinery, reducing the risk of damage and downtime. This translates into increased productivity, improved operational efficiency, and a longer lifespan for valuable assets. Furthermore, the Alenntronics Power Save AP2S-82 is not limited to industrial applications alone. Its versatility allows it to be adapted for use in the agriculture industry as well. From irrigation systems to grain handling equipment, the Power Save AP2S-82 can optimize power usage, reduce energy wastage, and contribute to sustainable farming practices.

### Specifications

Capacity 325KVA

- Input Voltage 380VAC (+/- 10%)
- Frequency 50Hz
- SCADA Connection
- Protection system :
  - overload
  - overvoltage
  - undervoltage
  - over heating.
- Operating temperature up to 75°C
- Cos phi minimum 0.8





## STEP-UP TRANSFORMATOR

### Specifications

- Capacity 150 KVA
- Phase 3P
- Input Frequency 40 - 70 Hz
- Primary 380 VAC
- Secondary 800 - 2000 V
- Enclosure NEMA 3R
- Class F
- VSD Applications





# Motor Controller

## Boost Motor Performance and Safety with the LM-83i Motor Controller

### Enhanced Motor Protection:

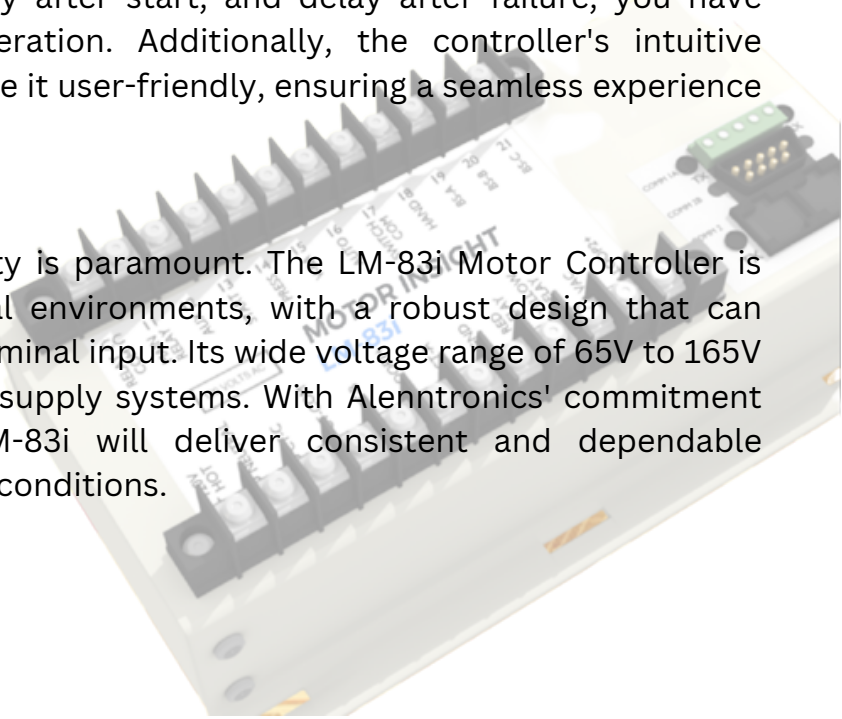
One of the standout features of the LM-83i Motor Controller is its advanced motor protection capabilities. With a precise measurement accuracy of 0.5%, this controller offers unparalleled accuracy in detecting and preventing motor overload and underload conditions. By constantly monitoring the motor's power output, the LM-83i ensures that it operates within safe limits, preventing costly damage and downtime.

### Real-time Monitoring:

The LM-83i Motor Controller takes motor control to the next level with its comprehensive monitoring capabilities. Equipped with the ability to measure and display three-phase current and voltage, this controller provides real-time insights into the motor's performance. By having this crucial information readily available, operators can quickly identify any abnormalities and take immediate corrective actions, minimizing the risk of motor failure and optimizing productivity. Flexible and User-friendly: Alenntronics understands the importance of adaptability in industrial settings. That's why the LM-83i Motor Controller offers a range of customizable settings to suit your specific requirements. With options for delay before start, delay after start, and delay after failure, you have complete control over the motor's operation. Additionally, the controller's intuitive interface and easy-to-navigate display make it user-friendly, ensuring a seamless experience for operators of all levels of expertise.

### Reliability and Durability:

When it comes to motor control, reliability is paramount. The LM-83i Motor Controller is built to withstand the toughest industrial environments, with a robust design that can handle the impact of up to 10 times the nominal input. Its wide voltage range of 65V to 165V ensures compatibility with various power supply systems. With Alenntronics' commitment to quality, you can trust that the LM-83i will deliver consistent and dependable performance, even in the most demanding conditions.





# Motor Controller

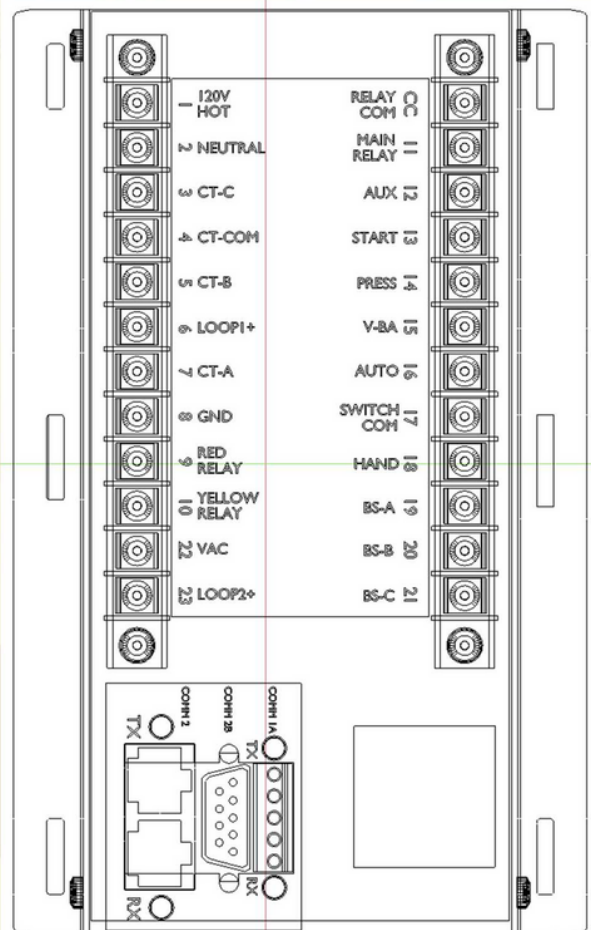
## Specification

NO	Structure	motor controller and display panel separate
1	Version	2
1	Number of terminals	24
1	RS232 or RS485	△
1	MODBUS	△
1	RJ45(Non-network port)	△
1	Measure three-phase current (A)	△
1	Measure three-phase Voltage(V)	△
1	Measuring control voltage (110V power supply)	△
1	Measure the power output ((control cabinet) line voltage	△
1	Overload	△
1	Under load	△
1	Overload of power output (control cabinet) line voltage	△
1	Underload of power output (control cabinet) line voltage	△
1	Current unbalance	△
1	Voltage unbalance	△
1	Analog 1	△
1	Analog 2	△
1	Analog 3	△
1	auxiliary 1	△
1	auxiliary 2	△
1	auxiliary 3	△
1	Phase sequence	△
1	Power Frequency	△
1	Power factor	△
1	Instantaneous power	△
1	Power accumulation	△
1	Fault memory	△
1	Automatic start	△
1	Display three-phase current or three-phase voltage on the same screen	
1	Three relay outputs	△
1	operation hours	△
1	Number of failures	△
1	operation ( start up) counts	△
1	Cycle display	△
1	Control terminal settings	△
1	Re-display the fault code that caused the shutdown after power-on	△
1	After restarting, the last power-off data can be displayed	△
1	The number of times that can be started after failure can be selected	△
1	After the failure, the number of starts	△
1	Delay before start	△
1	Delay after start	△
1	Delay after failure	△
1	Start terminal	△
1	Stop terminal	△
1	Activation of offshore fire pump facilities	
1	Soft start model 1: Star/delta conversion	
1	Soft start model 2: Self-coupling step-down	
1	Soft start model 3: String reactance	

### Main Technical Index :

1. Measurement accuracy 0.5 %.
2. Measured nominal input :  
Current 0 - 5 A, can withstand 10 times the impact.  
Voltage 120V AC can be extended to 65V - 165V.
3. Measured operating frequency : 45 Hz - 65 Hz.
4. Power consumption : ≤ 5VA.

### Wireframe View





## OUR PORTFOLIO



**ESP  
Installation  
Activity**

## OUR CUSTOMER



**PT. BERKAT PELITA  
ENERGI**

**PT. IMBANG  
TATA ALAM**

**PT. LAMIN HIJAU  
ENERGI**

## OUR PARTNER



**PT KABELINDO MURNI Tbk**  
Indonesia's Leading Wire and Cable Manufacturer