



## Low Voltage Switchboards

wherever energy exists...

### ARISTIDIS SIAFARAS S.A. - ELECTRIC SYSTEMS

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Siafaras Electric Systems is manufacturing electrical Low Voltage switchboards for over 50 years. It manufactures fully standardised and certified systems, satisfying the requirements of the most demanding technical specifications. All switchboards are in line with the relevant international standards, and each product undergoes routine tests in our fully equipped laboratory, making our products synonymous to high quality and safety. The establishment of a leading position in the Greek market has led in collaboration with world-class system manufacturers, who certified Siafaras as an official partner.



## Standardised Solutions

- SIAFARAS / SL35
- ABB / ArTu-K
- LOGSTRUP / OMEGA
- SCHNEIDER ELECTRIC / PRISMA P



### USE

The Low Voltage switchboards manufactured by Siafaras Electric Systems, cover a wide range of applications:

- Distribution switchboards
- MCC (Motor Control Center) switchboards
- Automation switchboards - PLC
- Switchboards for Inverters
- Automatic capacitor banks for reactive power compensation
- AC/DC switchboards for photovoltaic parks
- Switchboards for special applications and requirements

### PARTITIONING

Our standardised switchboards meet the following partitioning forms, according to the European standard EN 60439-1:

- Form 1: No internal partitioning
- Form 2a / 2b: partitioning between busbar and operational modules
- Form 3a / 3b: Like Form 2 + partitioning between operational modules
- Form 4a / 4b: Like Form 3 + partitioning between terminal connections
- Draw-out switchboards - distribution & control

### DRAW-OUT

The standardised Draw out Low Voltage switchboards are the most technologically advanced solution in the Low Voltage construction, having the following key advantages:

- High Personnel safety
- Operational safety
- Ease in changing / interchanging during operation
- Total flexibility

## SAFETY GUARANTY CERTIFICATION

### TYPE TESTS

We have successfully conducted type test, in our Low Voltage switchboards, at the PPC's (Public Power Corporation) accredited laboratory (KDEP).

### ROUTINE TESTS

We perform a quality inspection to all our Low Voltage products according to the European Standard EN 61439-1, which refers to Low-voltage switchgear and controlgear assemblies. We issue quality certificates for each product

- European standard EN 61439-1
- European Directive 93/68 (CE)

### DOCUMENTATION

Complete electrical drawings are used in the manufacturing of electrical panels, providing technical information to customers and the comprehensive documentation of the final product.

### TECHNICAL CHARACTERISTICS

Type-tested Switchgear and Controlgear Assembly (TTA)	
Rated impulse withstand voltage ( $U_{imp}$ )	9.8kV / 8kV
Rated insulation voltage ( $U_i$ )	1000V
Rated operational voltage ( $U_e$ )	690V
Max. Test voltage ( $V_{eff}$ )	3500V, 1min
Rated current ( $I_n$ )	up to 8500A
Peak withstand current ( $I_{pk}$ )	up to 300kA
Short-time withstand current ( $I_{cw}$ )	up to 130 kA 1 sec



ArTu®K

Logstrup

PRISMA  
partners

CE

KAEN

CESI