



Electro - Mechanical Components - Sarasota, FL

# ELECTRICITY IS IN THE AIR

ELECTRICAL & POWER

## SAFRAN ELECTRICAL & POWER

As the electrical expert of Safran, we bring to the market a unique positioning, meeting the requirements of all onboard electrical functions. We bring you the best through tailor-made services, from early design to operational support.

### A COMPLETE ELECTRICAL OFFERING

- Generation
- Distribution
- Power electronics
- EWIS
- Ventilation systems
- Integration & Certification

Safran Electrical & Power is the partner of the most prestigious aircraft manufacturers, with equipment on board more than 70 recent programs, across all segments: commercial, regional, business jets, helicopters, defence & space.

### A WORLD LEADER IN ELECTRICAL SYSTEMS

**No. 1** for EWIS and ventilation systems.

**No. 2** for electrical power generation.

**Leader** in electrical power distribution.

**Pioneer** in loads electrification through Power Electronics (1<sup>st</sup> ETRAS, 1<sup>st</sup> EBAC).

### THE MOST COMPREHENSIVE AND MODULAR SERVICES ON THE MARKET

Our capabilities cover the entire value chain (design, certification, integration, installation and support), including trans-ATA approaches.

### INNOVATIVE RESEARCH & TECHNOLOGY PROJECTS

The electrical revolution is underway. With a number of innovative R&T projects, we prepare today the technological breakthroughs of tomorrow for:

- Better aircraft dispatch
- Greener operations
- Lower operating cost
- Safer aircraft

### THE PREFERRED DEVELOPMENT PARTNER FOR YOUR NEXT PROGRAMS

As already demonstrated on the latest major aerospace programs (A350, B787, C919), we offer dedicated capabilities and reactivity for the design, integration and certification of complete electrical systems.

### SARASOTA, FL - MISSION CRITICAL SUBSYSTEMS FOR AEROSPACE, MILITARY AND INDUSTRIAL MARKETS

With 125,000 square feet of surface area, its 249 employees are dedicated to manufacturing switches, circuit breakers, contactors and Maintenance, Repair and Overhaul (MRO) activities for aircraft electrical equipment, particularly backup systems such as Ram Air Turbines (RATs) and Air-Driven Generators (ADGs).

### SARASOTA, FL - MORE SERVICES

- Maintenance, Repair and Overhaul (MRO)
- Aircraft electrical equipment
- Backup systems
- Ram Air Turbines (RATs)
- Air-Driven Generators (ADGs)

**POWERED  
BY TRUST**

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We make it more electric



More than **13,300**  
people in **12** countries  
Americas: More than 5,500  
Europe / Africa: More than 7,000  
Asia: Almost 800

**3,410**  
Expert engineers  
within Safran Engineering  
Services subsidiary

Every second in the world,  
**100**  
passengers  
take to the sky with  
Safran Electrical & Power

PDU

Power Distribution Units



ADVANCED POWER DISTRIBUTION UNIT (APDU) FOR MODERN AIRCRAFT OR MILITARY GROUND VEHICLES

**APDU combines contactors, circuit breakers, and control logic in a single integrated package. Advanced packaging techniques allow for power distribution.**

- Virtually wireless design with integrated PICB Panels
- Customized electronics for current sensing and CB trip status monitoring
- 35% wgt reduction vs. conventional approach & operates 50°C cooler



RCCB

Remote Controlled Circuit Breaker



RCCB COMBINES THE BEST ATTRIBUTES OF A CIRCUIT BREAKER AND A CONTACTOR

**Automatically protects the wires and the load device during circuit/load breakdown, but allows the flight deck control of the load during normal operation.**

- Qualified to demanding performance parameters of MIL-PRF-83383
- More efficient power distribution solution
- Promotes cost and weight savings through the elimination of long runs of cables
- Removes the presence of large circuit breakers from the cockpit



CIRCUIT BREAKER PANEL



OFFERS WEIGHT SAVINGS, FLEXIBLE CONFIGURATIONS, ENHANCED THERMAL EFFICIENCY AND EASE OF MAINTENANCE

**New patented plug-in circuit breaker panel was developed for a broad range of aerospace applications and replaces the bulky labor intensive conventional circuit breaker panels.**

- Conductive Matrix
- Faster Assembly
- Better Access
- Improved Panel Lighting
- Module Options
- 30% space savings
- 30% weight savings
- 30°C to 40°C cooler than conventional panels



CIRCUIT BREAKERS



OPTIMIZING CIRCUIT BREAKERS TO SATISFY APPLICATION REQUIREMENTS

**We offer Integrated Circuit Breaker Panels as a Line Replaceable Unit that reduce the OEM production installation time. Cost, size, weight can be minimized while enhancing performance.**

- Auxiliary Terminal
- Fast-Trip (Load Protection)
- High Vibration
- Hot-wire
- Indicator Control Unit (ICU)
- Long Button
- Military Approved Devices
- Random Vibration
- Remote Controlled
- Single Phase & Three Phase
- Temperature Compensated



SWITCHES



OUR INVENTORY COVERS THEM ALL

**Each switch design is optimized for your particular application by using the appropriate switch mechanism. Options include contact-less, extended-life, snap-action, tapered, and limit switch versions. Performance ranges from logic level to high power applications.**

- EMI/RFI Shielded Pushbutton Switches
- Environmentally Sealed Switches
- Miniature Switches
- Precision Snap Action Switches
- Pushbutton Switches
- Rocker Switches
- Switch Guards & Shields
- Toggle Switches
- Integrated Wire Termination System (IWTS)



CONTACTORS



HERMETICALLY AND ENVIRONMENTALLY SEALED POWER CONTACTORS

**Meeting MIL-R-6106 requirements for high-humidity, high-impact and high temperature conditions. Safran Electrical & Power offers a wide range of Mil-Spec qualified contactors and application specific devices.**

- Power Contactors
- Hermetically Sealed Power Contactors
- Lightweight Contactors
- Generator Contactors
- Custom Flat Packs

