

SLAT MCE FOR AIRBUS A350 XWB



DESCRIPTION

SILVER ATENA has been developing the hardware for the SLAT Motor Control Electronic (MCE) on behalf of Liebherr-Aerospace Lindenberg. The SLATs are part of the Secondary Flight Control System. They are extended from the leading edge of the wings during take-off and landing to provide additional lift.

The power electronics hardware development is governed by the strict guidelines of RTCA DO-254. Meeting the customer's requirements regarding weight and performance was a major challenge.

In addition to the SLAT MCE unit, SILVER ATENA also developed the necessary HIL test systems and test benches.

PROPERTIES

- Used for the electric operation of the leading edge wing flaps (SLATs) of the Airbus A350 XWB
- The SLAT MCE controls the electric motor of the SLAT Drive and the electrical power off brake
- Hardware developed according to civil aviation standard RTCA DO-254, Design Assurance Level (DAL) B
- Qualified for environmental conditions according to civil aviation standard RTCA DO-160 and Airbus directives

APPLICATIONS

- Flight Control Systems
- Auxiliary units
- Applications using electric drives as replacement of mechanical / hydraulic systems

TECHNICAL DATA

PARAMETER		SPECIFICATION
HARDWARE	Electrical Power Processors	Power supply from aircraft network (3 x 230 VAC, variable frequency) Total power 25 kW
	Enclosure	Hermetically sealed chassis with passive cooling
	Temperature Range	-55 °C ... +95 °C (operating)
	Interfaces	ARINC 429, CAN, RS-232, resolver, 3-phase high voltage motor output Solenoid output
SOFTWARE	Developed by Liebherr-Aerospace	



CONTACT

Tel.: +49 89 18 96 00 – 33 22

Fax.: +49 89 18 96 00 – 73 99

info@silver-atenade