SAAU

TYPE CERTIFICATE DATA SHEET № TL 0062

AT-3 series

Type Certificate Holder: AERO AT Sp. z o.o.
ul. COP-u 2
39-300 Mielec
Poland

Models: AT-3R100

Issue 1, 19 September 2013

This Data Sheet which is integral part of Type Certificate № TL 0062 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the airworthiness requirements and environmental protection requirements, stated in Certification basis mentioned in this Data Sheet.

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I. General

Data Sheet No.: TL 0062

1. a) Type: AT-3
   b) Model: AT-3R100

2. Airworthiness Category: Very Light Aeroplane

3. Type Certificate Holder:
   AERO AT Sp. z o.o.
   ul. COP-u 2
   39-300 Mielec
   Poland

4. Manufacturer:
   AERO AT Sp. z o.o.
   ul. COP-u 2
   39-300 Mielec
   Poland

5. SAAU Application Date: 05 Jan 2011

6. SAAU Certification Date: 19 Sep 2013

II. Certification Basis

1. Certification Basis: As defined in EASA CRI A-01, latest Issue

2. Airworthiness Requirements:
   EASA CS-VLA dated 14 November 2003
   (Equivalent to JAR-VLA Issued 26 April 1990
   including amendments up to VLA/92/1 dated 1
   January 1992)

3. EASA Environmental Standards: ICAO, Annex 16, Volume 1, Chapter 10

III. Technical Characteristics and Operational Limitations

1. Type Design Definition:
   Master Drawing List, Document No. ATS3.02
   dated 03.02.2003, Amendment 5 dated 16.05.2005 and
   subsequent

2. Description:
   Single engine, two-seater cantilever low wing
   aeroplane, all metal construction, fixed tricycle landing
   gear

3. Equipment:
   Equipment list, AFM, Document No. ATL3.03 or
   ATL3.04, Section 2 and 6

4. Dimensions:
   Span 7.55 m
   Length 6.25 m
5. Engines:

Bombardier-Rotax 912S2 or S4
SAAU Type Certificate Data Sheet TD 0060

5.1 Engine Limits:

Max take-off rotational speed 5800 r.p.m
Max continuous rotational speed 5500 r.p.m
For other engine limits refer to AFM,
Document No. ATL3.03 or ATL3.04, Section 2

6. Propeller:

6.2 Type

ELPROP 3-1-1P
SAAU Type Certificate Data Sheet TG 0025

6.2.1 Diameter

1 730 mm

6.2.2 Kind

Three-blade ground adjustable propeller with
composite blades and metal hub

6.2.3 Propeller configuration

Tractor propeller

6.2.4 Blade angle of incidence

21.5° ±0.5°

7. Fluids:

8.1 Fuel:

Minimum 95 Grade Unleaded Automotive
Gasoline or AVGAS 100 LL if other fuel is not available

8.2 Oil:

Oils conforming to API classification marked
SF or SG
For more details see AFM, Document No. ATL3.03 or
ATL3.04, Section 2

8. Fluid capacities:

8.1 Fuel: Standard Fuel Tank

Total: 68.5 litres
Usable: 65.0 litres

With additional fuel tank:

Total: 123.5 litres
Usable: 120.0 litres

8.2 Oil:

Maximum: 3.5 litres
Minimum: 2.5 litres

9. Air Speeds:

Design Manoeuvring Speed V_{A}:
109 kt (202 km/h) CAS

Flap Extended Speed V_{FE}:
85 kt (157 km/h) CAS

Maximum structural cruising speed V_{MO}:
109 kt (202 km/h) CAS
Never exceed speed $V_{NE}$: 123 kt (228 km/h) CAS

10. Maximum Operating Altitude: Not defined

11. All weather Capability: Day & Night VFR - See: Note 3

12. Maximum Masses:
   Take-off 582 kg
   Landing 582 kg

13. Centre of Gravity Range:
   Forward limit
     up to 480 kg 0.203 m behind Datum
     at 582 kg 0.267 m behind Datum
     varying linearly with mass in between
   Rear limit:
     for all masses 0.394 m behind Datum

14. Datum: Wing Leading Edge

15. Levelling Means:
   Spirit Level on the cockpit side rail with canopy open


17. Maximum Passenger Seating Capacity: 1

18. (Reserved)

19. Baggage / Cargo Compartments
   Location
   Port Side Compartment Max. allowable Load
   Starboard Side Compartment 20 kg
   10 kg

20. Wheels and Tyres
   Nose Wheel Tyre Size 5.00 - 4 6ply Type III
   Main Wheel Tyre Size 380x150/15x6.00-5

IV. Operating and Service Instructions

Aeroplane Flight Manual (AFM) Document No. ATL3.03, Polish Language version and ATL3.04, English Language version

Aeroplane Maintenance Manual (AMM) Document No. ATT3.02, Polish Language version and ATT3.03, English Language version (incl. Airworthiness Limitations)
V. Notes

1. This certification applies to:
   - Serial numbers AT3-008 and AT3-011 and subsequent,
   - Serial numbers from AT3-001 to AT3-005 and AT3-010 modernized according to the Remark No1 in the Master Drawing List, Document No ATS3.02 dated 03.02.2003, Amendment 5 dated 16.05.2005

2. Approved Noise Levels in accordance with:
   ICAO Annex 16, Volume I, Chapter 10: 66.6 dB(A)

3. The airplane is approved for VFR-Night operation when the appropriate equipment is installed and operative.

Head of aeronautical products
type certification department

Sergii Gaidenko