TYPE-CERTIFICATE
DATA SHEET

NO. EASA.A.633

for
ELIXIR

Type Certificate Holder
ELIXIR AIRCRAFT

Rue du Jura
17000 La Rochelle
FRANCE

For models:  Elixir
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SECTION A: MODEL A DESIGNATION

A.I. General

1. Type/ Model/ Variant
1.1 Type: ELIXIR
1.2 Model: Elixir

2. Airworthiness Category: CS-23, Normal category

3. Manufacturer
   ELIXIR AIRCRAFT
   Rue du Jura
   17000 La Rochelle
   FRANCE

4. EASA Type Certification Application Date 17 May 2016
7. EASA Type Certification Date 20 March 2020

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: May 2016
2. Airworthiness Requirements EASA CS-23, Certification Specifications for Normal, Utility, Aerobatic and Commuter Category Aeroplanes, Amendment 5 Level 1 Aircraft (CS-VLA amendment 1 as AMC)

3. Special Conditions SC-ELA.2015-01, i2 – Lithium Battery Installations
4. Exemptions None
5. (Reserved) Deviations None
6. Equivalent Safety Findings None
7. Environmental Protection See TCDSN EASA.A.633
A.III. **Technical Characteristics and Operational Limitations**

1. **Type Design Definition**

   ELIXIR Master Document List LXR-AI-REC-DOC-MASTER DOCUMENT LIST R02 or later approved revision

2. **Description:**

   The airplane is a side-by-side two-seater. It has a partially elliptical cantilever low wing configuration with flaps and ailerons. The tail has a T configuration. The tricycle landing gear is fixed.

3. **Equipment:**

   The aeroplane is equipped with an airframe parachute.

4. **Dimensions:**

   - Wing span: 8.48 m
   - Height: 1.80 m
   - Length: 6.06 m
   - Wing area: 7.9 m²

5. **Engine**

   5.1 **Model:** ROTAX 912iSc3 Sport
   5.2 **Type Certificate:** The ROTAX 912iSc3 Sport is certified by EASA under TC EASA.E.121 TCDS No. E.121 issue 11 dated 11 Oct. 2019.
   5.3 **Limitations:** Refer to the latest version of TCDS No. E. 121

6. **Load factors:**

   - Flaps up n: +4
   - Flaps up n: -2
   - Flaps down n: +2
   - Flaps down n: -0

7. **Propeller**

   7.1 **Model:** MTV-34-1-A/156-203
   7.2 **Type Certificate:** The MTV-34-1-A/156-203 is certified by EASA under TC EASA.P.049 TCDS No. P.049 issue 02 dated of 13 Dec. 2018.
   7.3 **Number of blades:** 3
   7.4 **Diameter:** 1.56 m
   7.5 **Sense of Rotation:** clockwise, seen from pilot’s point of view

8. **Fluids**

   8.1 **Fuel:** See AFM section 2.12.2
   8.2 **Oil:** See AFM section 2.13.2
   8.3 **Coolant:** See AFM section 2.14.2

9. **Fluid capacities**

   9.1 **Fuel:**
   - Total capacity: 104 L
   - Usable capacity: 100 L
   9.2 **Oil:**
   - Min. sump capacity: 3.05 L
   - Max. sump capacity: 3.5 L
   9.3 **Coolant:**
   - Capacity: 2.5 L

10. **Air Speeds (indicated)**

    - \( V_s^0 \): 85 km/h (46 kts)
    - \( V_s \): 113 km/h (59 kts)
    - \( V_f \): 164 km/h (88 kts)
    - \( V_a \): 224 km/h (121 kts)
Vc: 244 km/h (131 kts)
Vne: 290 km/h (156 kts)

Note: IAS = CAS + 2 km/h on the whole flight envelope and flap settings

11. Flight Envelope: Max. operating altitude above MSL: 4877m / 16 000ft
12. Approved Operations Capability: Day-VFR operations only
13. Maximum Masses: 630 kg
14. Centre of Gravity Range: From 800mm to 860mm referring to firewall

15. Datum: The datum line is the firewall.
16. Control surface deflections: Refer to AMM
17. Levelling Means: Refer to AMM
18. Minimum Flight Crew: One (1) pilot
19. Maximum Passenger Seating Capacity: One (1) passenger
20. Baggage/Cargo Compartments: At the back of the seats, weight limitation: refer to AFM
21. Wheels and Tyres: Main wheel size 5.00-5
Nose wheel size 11x4.00-5

22. (Reserved)

A.IV. Operating and Service Instructions

Revision 01 or later EASA approved revisions
01 Revision 01 or later EASA approved revisions
A.V.  Notes

Structure is qualified up to 54°C (129.2°F). Operation of the aircraft with structure temperatures (composite) above 54°C (129.2°F) is not permitted. See AFM Ed01 Rev01 or later EASA approved revisions.
SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations
None

II. Type Certificate Holder Record
None

III. Change Record

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<th>Issue</th>
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<tr>
<td>01</td>
<td>20 March 2020</td>
<td>Initial Issue</td>
<td>Issue 01, 20 March 2020</td>
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<tr>
<td>02</td>
<td>17 March 2022</td>
<td>Update of manufacturer address, change of propeller model, increase of MTOM, update of air speeds, removal of note on post TC items, addition of structural temperature limitation. Editorial updates.</td>
<td>Issue 01, 20 March 2020</td>
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