TYPE-CERTIFICATE
DATA SHEET

NO. EASA TC NO. EASA.A.633

for
ELIXIR

Type Certificate Holder
ELIXIR AIRCRAFT

6 rue Aristide Berges
17180 Perigny
FRANCE

For models: Elixir
Intentionally left blank
SECTION A: MODEL A DESIGNATION

A.I. General ...............................................................................................................................4
A.II. EASA Certification Basis ......................................................................................................4
A.III. Technical Characteristics and Operational Limitations ....................................................5

SECTION ADMINISTRATIVE.................................................................................................................8
I. Acronyms & Abbreviations ....................................................................................................8
II. Type Certificate Holder Record ..............................................................................................8
III. Change Record.......................................................................................................................8
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
6 rue Aristide Berges
17180 Perigny
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 EASA CS-36, Certification Specification for Aircraft Noise, Amendment 3
A.III. **Technical Characteristics and Operational Limitations**

1. Type Design Definition
2. Description:
The airplane is a side-by-side single engine 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 ELIXIR aeroplane is equipped with an airframe parachute system.
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 912iSc 3 Sport
5.3 Limitations: Refer to the latest version of TCDS EASA.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/156-200
   7.2 Type Certificate: The MTV-34-1-A/156-200 is certified by EASA under Type Data Sheet number TCDS No. P.049 issue 01 dated of 15 January 2015
   7.3 Number of blades: 3
   7.4 Diameter: 1.56m
   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 Operators Manual OM-912 i
           See Service Instruction SI-912i-001
   8.3 Coolant: See AFM section 2.14.2

9. Fluid capacities
   9.1 Fuel: Total capacity: 94L
            Usable capacity: 90L
   9.2 Oil: Min. sump capacity: 3.05 L
           Max. sump capacity: 3.5 L
   9.2 Coolant: Capacity: 2.5 L

10. Air Speeds (indicated)
Vs0: 83 km/h (44.8 kts)
Vs: 105 km/h (56.7 kts)
Vfe: 164 km/h (88.6 kts)
Va: 215 km/h (116.1 kts)
Vc: 248 km/h (133.9 kts)
Vne: 290 km/h (156.6 kts)
Note: IAS = CAS + 2 km/h on the whole flight envelope and flap settings

11. Flight Envelope: Max. operating altitude above MSL: 3 048 m / 10 000 ft
12. Approved Operations Capability: VFR-Day operations only
13. Maximum Take Off Mass: 544kg
14. Centre of Gravity Range: 23% -36% MAC

15. Datum: The datum line is located 430 mm behind 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 AMM
21. Wheels and Tyres: Main wheel size 5.00-5
Nose wheel size 11x4.00-5
22. (Reserved)
A.IV. **Operating and Service Instructions**


A.V. **Eligible Serial Numbers:** SN 02 and following (see Note 1)

A.VI. **Notes**

Note 1: Before the first issuing of a CofA (Certificate of Airworthiness) and entry into service, Post TC open items need to be closed. At this stage this note will be removed.
SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

II. Type Certificate Holder Record
   None

III. Change Record

<table>
<thead>
<tr>
<th>Issue</th>
<th>Date</th>
<th>Changes</th>
<th>TC Issue No. &amp; Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>20 March 2020</td>
<td>Initial Issue</td>
<td>Issue 01, 20 March 2020</td>
</tr>
</tbody>
</table>

-END-