

**MINISTÉRIO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL**

TYPE CERTIFICATE DATA SHEET Nº EA-9801

Type Certificate Holder:

AVIAT AIRCRAFT INC.

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USA

EA-9801

Sheet 01

AVIAT

A-1 (Husky)

May 1998

This data sheet, which is part of Type Certificate No. 9801, prescribes conditions and limitations under which the product, for which the Type Certificate was issued, meets the airworthiness requirements of the Brazilian Aeronautical Regulations.

I - Model A-1, (Normal Category), approved 14 May 1998.

| | |
|---------------------------------------|--|
| ENGINE | Lycoming O-360-C1G (180 hp), or Lycoming O-360-A1P (180 hp). |
| FUEL | 100/100LL grade aviation gasoline |
| ENGINE LIMITS | For all operations, 2700 rpm. |
| PROPELLER AND PROPELLER LIMITS | Hartzell HC-C2YK-1BF/F7666A (Constant Speed). Diameter not over 76 in (1930 mm), not under 72 in (1828 mm). Pitch setting at 30 in (762 mm) station: low $11.7^\circ \pm 0.2^\circ$ high $29^\circ \pm 1.0^\circ$ Hartzell spinner assy 836-60 (Required). Hartzell governor V3-6 Placard required: "AVOID CONTINUOUS OPERATION BETWEEN 2000-2250 rpm" |
| AIRPEED LIMITS (CAS) | Never Exceed (V_{NE}) 150 mph (130 kt) Maximum Structural Cruising (V_{NO}) 119 mph (103 kt) Maneuvering (V_A) 94 mph (81 kt) Flaps Extended (V_{FE}) 76 mph (66 kt) |
| C. G. RANGE | +74.5 in (1892 mm) to +78.4 in (1991 mm) at 1800 lb (816.5 kg). +72.5 in (1842 mm) to +78.4 in (1991 mm) at 1500 lb (680.4 kg) and below. Straight line variation between points given. |
| EMPTY WT. C. G. RANGE | None |
| DATUM | 60 in (1524 mm) forward of wing leading edge. |
| LEVELING MEANS | Lower cabin door sill. |

| | | | |
|---------------------------------------|---|--------------|------------------|
| MAXIMUM WEIGHT | 1800 lb (816.5 kg) | | |
| NUMBER OF SEATS | 2 [1 at +72.5 in (1842 mm) and 1 at +99.0 in (2515 mm)]. | | |
| MAXIMUM BAGGAGE | 50 lb (22.7 kg) [+120.0 in (3048 mm)]. | | |
| FUEL CAPACITY | 52 gal (197 l) [two 26 gal (98.5 l) tanks in wings at + 84.0 in (2134 mm)]. 50 gal (189 l) usable. See Note1 for data on unusable fuel. | | |
| OIL CAPACITY | 8 qt (7.6 l) [+25.9 in (658 mm)]. | | |
| CONTROL SURFACE MOVEMENTS: | Aileron | Up 20° ±2° | Down 15° ±1° |
| | Elevator | Up 29° ±1° | Down 15° ±1° |
| | Rudder | Left 25° ±2° | Right 25° ±2° |
| | Flaps | Up 0° | Down 30° +0°,-2° |
| S/N'S ELIGIBLE | A Certificate of Airworthiness for Export endorsed as noted under "Import Requirements" must be submitted for each individual aircraft for which application for a Brazilian Certificate of Airworthiness is made. | | |
| IMPORT ELEGIBILITY | <p>A Brazilian Certificate of Airworthiness may be issued on the basis of on a FAA Export Certificate on Airworthiness (or a third country Export Certificate on Airworthiness, in case of used aircraft imported from such country), including the following statement:</p> <p style="padding-left: 40px;">“The aircraft covered by this certificate has been inspected, tested and found to be in conformity with the Brazilian approved type design as defined by the Brazilian Type Certificate no. 9801 and in condition of safe operation”.</p> <p>The CTA Report H.10-1560-00, dated 14 May 98 or further revisions, contains the Brazilian requirements for the acceptance of this airplane. (See Note 4)</p> | | |
| CERTIFICATION BASIS | <p>The certification basis for the airplane model is RBHA 23 [corresponding to: FAR Part 23 - including Amendments 1 thru 31 (Normal Category) effective on 28 December 84] and FAR 36 [amended thru 36-12, effective on 01 August 81].</p> <p>Application for Type Certificate dated 20 August 96. Type Certificate No. 9801 issued on 14 May 98.</p> | | |
| REQUIRED EQUIPMENT | <p>The basic required equipment, as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airplane. In addition, the following items of equipment are required:</p> <ol style="list-style-type: none"> 1. stall warning indicator; and 2. cylinder head temperature gage. <p>The "Equipment List" lists all required and optional equipment and is included in the Brazilian approved AFM, section 6.</p> | | |

NOTES

NOTE 1: Current weight balance report, including list of equipment included in certificate empty weight and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter. The certificated empty weight and the corresponding center of gravity location must include unusable fuel of 12.0 lb (5.4 kg) at +84.0 in (2134 mm) and engine oil in tanks and in the systems.

NOTE 2: All placards specified in the Brazilian approved Airplane Flight Manual must be displayed in the airplane in the appropriate locations. The following placards must be in Portuguese or bilingual (Portuguese/English):

| ENGLISH | PORTUGUESE |
|---|--|
| MAXIMUM BAGGAGE 50 LBS | BAGAGEM MÁXIMA 23 kg |
| FUEL 100/100LL OCTANE 25 GALS USABLE | GASOLINA 100/100LL OCTANAS 25 GALÕES (94,5 l) USÁVEIS |
| NO SMOKING | PROIBIDO FUMAR |
| DOOR LATCH LIFT TO OPEN | TRAVA DA PORTA LEVANTE PARA ABRIR |
| NO STEP | NÃO PISE |

NOTE 3: Reserved.

NOTE 4: The differences of the Brazilian airplanes in relation to the basic FAA type design are summarized below:

1. The Brazilian Airplane Flight Manual original release was approved by FAA on behalf of CTA on 21 April 98.
2. Markings and placards: see note 2.
3. A sensitive altimeter adjustable in mbar or hPa is required.
4. Shoulder harnesses are required for both seats, and it must be inertial reel type for the front seat.

Additional operational requirements: ELT and portable fire extinguisher.

NOTE 5: AVIAT, Inc.; Box 1149, South Washington Street; Afton, Wyoming is licensed by White International Ltd. to manufacture and obtain airworthiness certificates for the Model A-1 aircraft.

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