

**型号认可证数据单**  
**THE VALIDATION DATA SHEET**

编号/No.: VTC0322A

版次/Revision: 0

型别/Type:

SINUS 912

批准人/Approved by: Feng Zhenglin



职务/Title: Administrator of CAAC

日期/Date: 2016-04-20

本数据单是型号认可证（编号 VTC0322A）的组成部分，它规定了符合中国民用航空局的适航要求所颁发此型号认可证的产品状态和限制。

This data sheet, which is a part of Validation Type Certificate (No: VTC0322A), prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

**型号认可证持有人/Validation of Type Certificate Holder:**

PIPISTREL d.o.o. Ajdovscina

Podjetje za alternativno letalstvo

Goriška cesta 50A, 5270 AJDOVŠČINA

SLOVENIJA

**有效页清单/List of effective pages :**

|             |   |   |   |   |   |   |  |  |  |  |  |  |
|-------------|---|---|---|---|---|---|--|--|--|--|--|--|
| 页数/ Pages   | 1 | 2 | 3 | 4 | 5 | 6 |  |  |  |  |  |  |
| 版次/Revision | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

# 第 1 部分 概述

## SECTION 1 GENERAL

### 1. CAAC 认可数据单和型号合格证数据单

#### CAAC Validation Data Sheet and Type Certificate Data Sheet

|               |                                                                                        |                                                                                           |
|---------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               | 中国民用航空局认可数据单号、版次和颁发日期<br>CAAC Validation Data Sheet Number, Revision and issuance date | 型号合格证数据单号、版次和颁发日期<br>Type Certificate Data Sheet Number, Revision and issuance date       |
| 当前<br>Current | No. VTC0322A, 版次 0<br>2016 年 4 月 20 日                                                  | CAA of the Republic of Slovenia<br>TCDS No. TC 99/001-AT/ULN01, Revision 1, 28. 09. 2005. |

2. 类别/Airworthiness Category: 特殊类别航空器-超轻型飞机/Special Class Aircraft – Ultralight Aeroplane
3. 认可当局/Validation Authority: 中国民用航空局/CAAC  
审定当局/Certifying Authority: 斯洛文尼亚民航局/CAA - Slovenia
4. 型号合格证持有人/Type Certificate Holder: PIPISTREL, d.o.o. Ajdovščina,  
podjetje za alternativno letalstvo  
Goriška cesta 50A, 5270 AJDOVŠČINA  
SLOVENIJA
5. 制造厂/Manufacturer: PIPISTREL, d.o.o. Ajdovščina,  
Podjetje za alternativno letalstvo

## 第 2 部分

## SECTION 2

型号和型别/TYPE SINUS 912

**AND MODEL:**

类型/CATEGORY: 特殊类别航空器-超轻型飞机/Special Class Aircraft – Ultralight Aeroplane

发动机/ENGINE:

发动机数量和型号/Number and type of Engine:

|                                              |                                          |
|----------------------------------------------|------------------------------------------|
| 发动机/Engine                                   | 1 台 ROTAX 912UL 发动机/1 Engine ROTAX 912UL |
| 发动机型号/Engine Type:                           | 912 UL2                                  |
| 最大功率/Maximum Power:<br>(两个汽化器/2 carburetors) | 81 马力, 5800 RPM<br>81 HP at 5800 RPM     |

**燃油规格/Fuel specifications:**

无铅，最低标号，欧洲：MON 83；美国：RON 91；ASTM：AKI 87。

UNLEADED EUROSUPER min. MON 83 RON 91 min. AKI 87

### 发动机限制/Engine Limits:

| 最大起飞转速<br>/RPM max<br>take-off | 最大连续转<br>速/RPM max<br>cont | 时间限制/Time Limit | 汽缸头温<br>度/CHT | 排气温度/<br>EGT | 水温(滑油<br>温度)/WT<br>(Oil T) |
|--------------------------------|----------------------------|-----------------|---------------|--------------|----------------------------|
| 5800                           | 5500                       | 5 分钟/min        | 150 °C        | 880 °C       | 140 °C                     |

条件/Conditions 转速/RPM 温度/TEMP 时间限制/Time Limit (汽缸头温度/CHT, 排气温度/EGT, 水温/WT)

启动&重点火/Starting & Relight 无数据/NO DATA

最大超速 Max. Overspeed 无数据/NO DATA

最大超温 Max. Overtemp 无数据/NO DATA

**螺旋桨/PROPELLER:**

**螺旋桨数量和型号/Number and type of Propeller:**

|                      |                           |
|----------------------|---------------------------|
| 螺旋桨数量/No. of Prop.   | 1                         |
| 螺旋桨型号/Propeller Type | Pipistrel FB 2D / Vario D |

**尺寸/DIMENSIONS:**

|                         |                      |
|-------------------------|----------------------|
| 翼展/Wing Span:           | 14.97 m              |
| 长度/Length:              | 6.6 m                |
| 高度/Height:              | 1.70 m               |
| 机翼面积/Wing surface:      | 12.26 m <sup>2</sup> |
| 方向舵面积/Rudder surface:   | 1.1 m <sup>2</sup>   |
| 升降舵面积/Elevator surface: | 1.63 m <sup>2</sup>  |
| 展弦比/Aspect ratio        | 18.3                 |

**飞行控制面偏转/FLIGHT CONTROL DEFLECTIONS:**

|                                |         |
|--------------------------------|---------|
| 襟副翼下偏角/ Flaps (flaperons) down | 9°, 18° |
| 襟副翼上偏角/ Flaps (flaperons) up   | 5°      |

**空速限制/AIRSPEED LIMITS (IAS):**

|                                                                               |          |
|-------------------------------------------------------------------------------|----------|
| V <sub>A</sub> : 机动速度/Maneuvering speed                                       | 135 km/h |
| V <sub>NE</sub> : 不可超越速度/Never Exceed speed                                   | 225 km/h |
| V <sub>FE</sub> : 襟翼放出/Flap Extended                                          | 130 km/h |
| V <sub>SO</sub> : 失速速度 (全襟翼) /Stall speed flaps extended (down)               | 63 km/h  |
| V <sub>SI</sub> : 失速速度 (襟翼收回) /Stall speed flaps retracted (neutral position) | 66 km/h  |
| 75%功率下的巡航速度/ Cruising speed 75% power                                         | 207 km/h |
| V <sub>PO</sub> : 减速板伸出的最大速度/Maximum velocity of airbrake extension           | 160 km/h |
| V <sub>H</sub> : 发动机工作时的最大平飞速度/Maximum horizontal speed on engine             | 220 km/h |
| V <sub>Y</sub> : 最佳爬升速度/ Speed of best rate of climb                          | 115 km/h |
| 最佳爬升率 (最大起飞重量) / Best rate of climb (MTOW):                                   | 6.5 m/s  |
| 空速 140km/h 的爬升率/Rate of climb at airspeed 140 km/h                            | 6.3 m/s  |
| 最小下降速度/Minimum sink speed                                                     | 90 km/h  |
| 最小下降率 (最小桨距) /Minimum sink rate (fine propeller pitch)                        | 1.24 m/s |
| 最小下降率 (顺桨) /Minimum sink rate (feathered propeller)                           | 1.02 m/s |
| 最大下降率 (减速板伸出) /Maximum sink rate (airbrakes extended)                         | 5.5 m/s  |
| 最佳滑翔比速度/ Best glide ratio speed                                               | 95 km/h  |

**飞行性能/FLIGHT PERFORMANCES:**

|                                                       |      |
|-------------------------------------------------------|------|
| 最佳滑翔比 (最小桨距) /Best glide ratio (fine propeller pitch) | 1:24 |
| 最佳滑翔比 (顺桨) /Best glide ratio ( feathered propeller)   | 1:27 |

**重心范围/CENTER OF GRAVITY (C.G.) RANGE**

|     |           |
|-----|-----------|
| MAC | 20% - 40% |
|-----|-----------|

**重量/WEIGHT:**

|                         |                 |
|-------------------------|-----------------|
| 空重/Empty weight:        | 284 kg – 309 kg |
| 最大起飞重量/Max takeoff mass | 472.5 kg        |

**最大允许过载/MAXIMUM PERMITTED “G” LOAD:**

|                                  |          |
|----------------------------------|----------|
| 过载限制/ Maximum permitted “g” load | +4g, -2g |
|----------------------------------|----------|

**滚转时间/ROLL TIME:**

|                                     |       |
|-------------------------------------|-------|
| -45°到+45°/45 – 45 degrees roll time | 4.2 s |
|-------------------------------------|-------|

最小机组/MINIMUM CREW: 1

最大乘员/MAXIMUM PASSENGERS: 1

最大行李重量/MAXIMUM BAGGAGE: 3 kg

**燃油量/FUEL CAPACITY:**

|                           |                    |
|---------------------------|--------------------|
| 燃油箱容积/Fuel tank capacity: | 2 x 30 L或者2 x 50 L |
|---------------------------|--------------------|

**滑油量/OIL CAPACITY:**

3L

**最大航程/MAXIMUM ENDURANCE:**

|                                            |                    |
|--------------------------------------------|--------------------|
| 10%储备续航时间/Endurance (10% reserve included) | 5.8小时<br>5.8 hours |
|--------------------------------------------|--------------------|

**最大运行高度/MAXIMUM OPERATING ALTITUDE:**

|                                                   |        |
|---------------------------------------------------|--------|
| 最大高度-升限（最大起飞重量）/Maximum altitude - ceiling (MTOW) | 8200 m |
|---------------------------------------------------|--------|

**起飞条件/TAKE-OFF CONDITIONS:**

|                                                                 |       |
|-----------------------------------------------------------------|-------|
| 滑跑距离（最大起飞重量）/Take-off roll (MTOW)                               | 88 m  |
| 飞越15米障碍的起飞距离（最大起飞重量）/Take-off distance over 15m obstacle (MTOW) | 148 m |

**燃油消耗/FUEL CONSUMPTION:**

|                                              |                     |
|----------------------------------------------|---------------------|
| 巡航速度下燃油消耗/Fuel consumption at cruising speed | 9.2 升/小时<br>9.2 l/h |
|----------------------------------------------|---------------------|

**仪表和最小设备/INSTRUMENTS AND MINIMUM EQUIPMENT**

**仪表/Instruments:**

空速指示器/Airspeed indicator

高度表/Altimeter

磁罗盘/Magnetic compass

燃油量指示器/Fuel quantity indicator

转速表/RPM indicator

油压指示器/ Oil pressure indicator

**设备/Equipment:**

座椅安全带和肩带/ Seat safety belts and harnesses

降落伞救援系统/Parachute rescue system

**必要的文件/REQUIRED DOCUMENTATION:**

飞行手册/Flight Manual

维修手册/Maintenance Manual

制造符合性声明/Certificate of conformity to-atestestation

**斯洛文尼亚民航局审定基础/CAA of Slovenia Certification Basis:**

ULN

**CAAC认可审定基础/CAAC Validation Basis:**

CAAC接受斯洛文尼亚民航局审定基础为认可审定基础。

CAAC Accept the CAA of Slovenia Certification Basis as Validation Basis.

**注释/Notes:**

注1：在Sinus 912飞机上没有CCAR 21.29第(五)款第1项、第(五)款第2项和(五)第3项要求的中文标记标牌。因此，CCAR 21.29第(五)款的中文语言要求不作为Sinus 912飞机认可审定基础中的专用技术条件。

Note 1: There is no Chinese language markings or placards on Sinus 912 required by CCAR 21.29 (e)(1), (e)(2), and (e)(3). Therefore, Chinese language requirement of markings and placards in CCAR 21.29(e) is not required as CAAC Additional Technical Conditions in the validation basis for Sinus 912.

结束

END