



# ***European Aviation Safety Agency***

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**EASA**

**TYPE-CERTIFICATE  
DATA SHEET**

**EASA.A.592**

**SportStar RTC**

Type Certificate Holder:

**Evektor, spol. s r.o.**

Letecka 1008  
686 04 Kunovice  
CZECH REPUBLIC

For models: SportStar RTC

Issue 1, 24 May 2012



# **CONTENT**

## **SECTION A: SportStar RTC**

- A.I. General
- A.II. Certification Basis
- A.III. Technical Characteristics and Operational Limitations
- A.IV. Operating and Service Instructions
- A.V. Notes

## **ADMINISTRATIVE SECTION**

- I. Acronyms
- II. Type Certificate Holder Record
- III. Change Record



## **SECTION A: SportStar RTC**

### **A.I. General**

1. Data Sheet No.: EASA.A.592
2. a) Type: SportStar RTC  
b) Model: SportStar RTC  
c) Variant: --
3. Airworthiness Category: Restricted
4. Manufacturer: EVEKTOR-AEROTECHNIK a.s.  
Letecka 1384  
686 04 Kunovice  
Czech Republic
5. Certification Application  
Date: 20 December 2010

### **A.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements: 20 December 2010
2. Airworthiness Requirements: As defined in CRI A-01, latest issue  
CS-LSA, initial issue, dated 27 June 2011
3. Special Conditions: None
4. Exemptions: None
5. Deviations: None
6. Equivalent Safety Findings: None



7. Requirements elected to comply: None
8. Environmental Standards: ICAO, Annex 16, Volume 1, Chpt. 10

### **A.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: Final assembly S0 00-08 01 SportStar RTC in the state of the date 11 May 2012
2. Description: Single engine, two-seater, all metal, cantilever low-wing monoplane with two side-by-side seats, fixed tricycle landing gear, tractor propeller.
3. Equipment: The minimum equipment is listed in approved Pilot's Operating Handbook, Doc. No. ERTC020-10-AS
4. Dimensions:
- |           |                     |              |
|-----------|---------------------|--------------|
| Span      | 8.646 m             | (28.37 ft)   |
| Length    | 5.98 m              | (19.62 ft)   |
| Height    | 2.476 m             | (8.12 ft)    |
| Wing Area | 10.6 m <sup>2</sup> | (114.1 sqft) |
5. Engine:
- 5.1.1. Engine Model 1 : ROTAX 912 ULS2
- 5.1.2. Type Certificate: Certified as part of the aircraft
- 5.1.3. Limitations: Max take-off speed 5800 rpm (5 min.)  
Max continuous speed 5500 rpm  
Idle speed approx. 1400 rpm  
For power-plants limits refer to Pilot's Operating Handbook, Doc. No. ERTC020-10-AS
- or alternative
- 5.2.1. Engine Model 2: ROTAX 912 S2
- 5.2.2. Type Certificate: EASA.E.121
- 5.2.3. Limitations: Max take-off speed 5800 rpm (5 min.)  
Max continuous speed 5500 rpm  
Idle speed approx. 1400 rpm  
For power-plants limits refer to Pilot's Operating Handbook, Doc. No. ERTC020-10-AS



6. Propeller:

- |     |                    |                          |
|-----|--------------------|--------------------------|
| 6.1 | Model:             | Woodcomp KLASSIC 170/3/R |
| 6.2 | Type Certificate:  | None                     |
| 6.3 | Number of blades:  | 3                        |
| 6.4 | Diameter:          | 1712 ± 2 mm              |
| 6.5 | Sense of Rotation: | Clockwise                |

7. Fluids:

- |     |       |  |
|-----|-------|--|
| 7.1 | Fuel: | Automotive gasoline with octane index min. RON 95 or AVGAS 100 LL or AVGAS UL91 (unleaded) |
|-----|-------|--|

For more details see Pilot's Operating Handbook, Doc. No. ERTC020-10-AS, Section 2

- |     |      |   |
|-----|------|---|
| 7.2 | Oil: | Performance classification SG or higher |
|-----|------|---|

For more details see Pilot's Operating Handbook, Doc. No. ERTC020-10-AS, Section 2

- |     |          |                                   |
|-----|----------|-----------------------------------|
| 7.3 | Coolant: | Conventional or waterless coolant |
|-----|----------|-----------------------------------|

For more details see Operators Manual for Rotax engine type 912 series, Doc. No. OM-912



8. Fluid capacities:

8.1 Fuel: Total: 120 litres  
Usable: 118 litres

8.2 Oil: MAX mark: 3.0 litres  
MIN mark: 2.5 litres

8.3 Coolant system capacity: approx. 1.5 litres

9. Air Speeds:

Design Manoeuvring Speed  $V_A$ :  
90 KIAS 167 km/h IAS

Maximum Flap Extended Speed  $V_{FE}$ :  
70 KIAS 130 km/h IAS

Design cruising speed  $V_C$   
115 KIAS 214 km/h IAS

Never exceed speed  $V_{NE}$ :  
146 KIAS 270 km/h IAS

9. Maximum Operating Altitude:

15 820 ft (4822 m)

10. Allweather Operations Capability:

Day-VFR

Flight into expected or actual icing conditions is prohibited

11. Maximum Weights:

Take-off: 600 kg (1323 lb)  
Landing: 600 kg (1323 lb)

12. Centre of Gravity Range:

Forward limit: 20% MAC  
Rear limit: 32% MAC  
MAC: 1.25 m

13. Datum:

Reference datum is the wing leading edge



- |   |  |
|---|--|
| 14. Control surface deflections:        | Refer to AMM   |
| 15. Levelling Means:                    | Lengthwise levelling point 1 and 2<br>Crosswise levelling point 5 and 7  |
| 16. Minimum Flight Crew:                | 1 (Pilot)  |
| 17. Maximum Passenger Seating Capacity: | 1  |
| 18. Baggage/Cargo Compartments:         | Location Behind the Seats<br>Max. allowable Load 25 kg (55.1 lbs)        |
| 19. Wheels and Tyres:                   | Nose Wheel Tyre Size 15 x 6.00 – 6<br>Main Wheel Tyre Size 15 x 6.00 – 6 |
| 20. Lifetime limitation:                | Refer to AMM, Section 4  |

#### **A.IV. Operating and Service Instructions**

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|--------------------------------|--|
| 1. Flight Manual:              | Pilot's Operating Handbook,<br>Doc. No. ERTC020-10-AS  |
| 2. Technical Manual:           | Airplane Maintenance Manual,<br>Doc. No. ERTC022-10-AS (incl. Airworthiness<br>Limitations)<br><br>Service Information and Service Bulletins |
| 3. Spare Parts Catalogue:      | Illustrated Parts Catalogue,<br>Doc. No. ERTC027-10-AS   |
| 4. Instruments and aggregates: | refer to Pilot's Operating Handbook,<br>Doc. No. ERTC020-10-AS, Amendment 1  |

#### **A.V. Notes:**

None

