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# TYPE-CERTIFICATE DATA SHEET

**NO. EASA.A.592**

for  
**SportStar RTC**

**Type Certificate Holder**  
Evektor, spol. s r.o.  
Letecka 1008  
686 04 Kunovice  
CZECH REPUBLIC

For models: SportStar RTC



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**SECTION A: MODEL A DESIGNATION**

**SportStar RTC**

**A.I. General**

1. Type/ Model/ Variant

1.1 Type SportStar RTC

1.2 Model SportStar RTC

1.3 Variant -

2. Airworthiness Category

Normal (Note 2)

3. Manufacturer

EVEKTOR-AEROTECHNIK a.s.

Okružní 234

293 06 BRADLEC

CZECH REPUBLIC

4. EASA Type Certification Application Date

20 December 2010

5. State of Design Authority

6. State of Design Authority Type Certificate Date

7. EASA Type Certification Date

**A.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements

20 December 2010

2. Airworthiness Requirements

CS-LSA, initial issue, dated 27 June 2011,

CS-LSA, Amendment 1, dated 29 June 2013 for KW-31 Major change

3. Special Conditions

SC-OLSA-div-01 VFR night flights for LSA (Note 1)

4. Exemptions

None

5. (Reserved) Deviations

None

6. Equivalent Safety Findings

None

7. Environmental Protection

see TCDSN EASA.A.592



### 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. Model 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. Model 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. Load factors
- Maximum positive load factor +4.0,  
Maximum negative load factor -2.0
7. Propeller
- 7.1.1. Model Woodcomp KLASSIC 170/3/R
- 7.1.2. Type Certificate None
- 7.1.3. Number of blades 3
- 7.1.4. Diameter 1708 ± 4 mm
- 7.1.5. Sense of Rotation Clockwise
- or alternative
- 7.2.1. Model Woodcomp KW-31-A-E-3-0-0-F(or I)/R-173-033
- 7.2.2. Type Certificate TCDS.P.177
- 7.2.3. Number of blades 3
- 7.2.4. Diameter 1726 ± 4 mm



7.2.5. Sense of Rotation      Clockwise

or alternative

7.3.1. Model	DUC SWIRL-3-L
7.3.2. Type Certificate	None
7.3.3. Number of blades	3
7.3.4. Diameter	1730 mm
7.3.5. Sense of Rotation	Clockwise

## 8. Fluids

8.1 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

8.2 Oil      Performance classification SG or higher  
For more details see Pilot's Operating Handbook, Doc. No. ERTC020-10-AS, Section 2

8.3 Coolant      Conventional or waterless coolant  
For more details see Operators Manual for Rotax engine type 912 series, Doc. No. OM-912

## 9. Fluid capacities

9.1 Fuel	Total:	120 litres
	Usable:	118 litres
9.2 Oil	MAX mark:	3.0 litres
	MIN mark:	2.5 litres
9.3 Coolant system capacity	approx.	1.5 litres

## 10. Air Speeds

Design Manoeuvring Speed VA:  
90 KIAS      167 km/h IAS

Maximum Flap Extended Speed VFE:  
70 KIAS      130 km/h IAS

Design cruising speed VC  
115 KIAS      214 km/h IAS

Never exceed speed VNE:  
146 KIAS      270 km/h IAS

Airplane with Woodcomp KW-31-033 propeller

Design Manoeuvring Speed VA:  
88 KIAS      163 km/h IAS

Design cruising speed VC  
113 KIAS      209 km/h IAS

11. Flight Envelope      Maximum operating altitude: 15 820 ft (4822 m)

12. Approved Operations Capability      Day-VFR  
Night VFR (Note 1)  
Flight into expected or actual icing conditions is prohibited.



13. Maximum Masses	Take-off:	600 kg (1323 lb)
	Landing:	600 kg (1323 lb)
14. Centre of Gravity Range	Forward limit:	20% MAC
	Rear limit:	32% MAC
		31% MAC Airplane with Woodcomp KW-31-033 propeller
	MAC:	1.25 m
15. Datum	Reference datum is the wing leading edge	
16. Control surface deflections	Refer to AMM	
17. Levelling Means	Lengthwise	levelling point 1 and 2
	Crosswise	levelling point 5 and 7
18. Minimum Flight Crew	1 (Pilot)	
19. Maximum Passenger Seating Capacity	1	
20. Baggage/ Cargo Compartments	Location	Behind the Seats
	Max. allowable Load	25 kg (55.1 lbs)
21. Wheels and Tyres	Nose Wheel Tyre Size	15 x 6.00 – 6
		(for use brakes Evektor and Matco)
		14,5 x 4.00 – 6
		(for use brakes Beringer)
	Main Wheel Tyre Size	15 x 6.00 – 6
		(for use brakes Evektor, Matco and Beringer)
22. (Reserved)	-	



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

1. Flight Manual Pilot's Operating Handbook,  
Doc. No. ERTC020-10-AS
2. Maintenance Manual Airplane Maintenance Manual,  
Doc. No. ERTC022-10-AS (incl. Airworthiness Limitations)
3. Structural Repair Manual Refer to Airplane Maintenance Manual, Doc. No.  
ERTC022-10-AS
4. Weight and Balance Manual Refer to Pilot's Operating Handbook,  
Doc. No. ERTC020-10-AS and Airplane Maintenance Manual,  
Doc. No. ERTC022-10-AS
5. Illustrated Parts Catalogue Illustrated Parts Catalogue, Doc. No.  
SPORTSTAR-0396G-02712-00

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

Note 1 – Supplement No. 31 „VFR Night Operation“ must be contained in Pilot's Operating Handbook when the SportStar RTC airplane is equipped for VFR Night operation

Note 2 – Aircraft manufactured before 12 January 2021 are eligible for Restricted Certificate of Airworthiness in accordance with TCDS EASA.A.592 issue 04 and previous.

This is applicable for following S/N:

20111411, 20121403, 20121412, 20121501, 20121504, 20121505, 20121601, 20131509, 20131602, 20131603, 20141701, 20141704, 20141705, 20141706, 20141707, 20141715, 20141716, 20151709, 20151710, 20151711, 20151712, 20151718, 20151720, 20151721, 20151722, 20151723, 20151724, 20151727, 20151728, 20151729, 20151730, 20151733, 20151736, 20151737, 20161904, 20161906, 20161907, 20161908, 20161909, 20161910, 20161911, 20161912, 20161918, 20161919, 20161920, 20171923, 20172001, 20172003, 20172004, 20172005, 20172006, 20182101, 20182102, 20182103, 20182104, 20182105, 20182106, 20182109, 20182110, 20182111, 20192112, 20192114, 20192117, 20192118, 20192119, 20192120, 20192121, 20192124, 20192126, 20202113, 20202125, 20202127, 20202128.

Any other S/N not listed here are eligible for normal Certificate of Airworthiness in accordance with TCDS EASA.A.592 issue 06 and later.





## SECTION ADMINISTRATIVE

### I. Acronyms & Abbreviations

AMM	Aircraft Maintenance Manual
CAI	Certification Action Item
CRI	Certification Review Item
CS-LSA	Certification Specification for Light Sport Aeroplanes
EASA	European Aviation Safety Agency
IAS	Indicated Airspeed
KIAS	Indicated Airspeed [knots]
MAC	Mean Aerodynamic Chord
POH	Pilot's Operating Handbook
RPM	Rotations per Minute
TCDS	Type Certificate Data Sheet

### II. Type Certificate Holder Record

Evektor, spol. s r.o.  
Letecka 1008  
686 04 Kunovice  
CZECH REPUBLIC

### III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	24-MAY-2012	Initial issue	Initial Issue, 24 May 2012
Issue 02	23-OCT-2015	Addition of propeller KW-31-033 and repair of Woodcomp Klassic 170/3/R diameter.	Initial Issue, 24 May 2012
Issue 03	16-APR-2019	VFR Night operation	Initial Issue, 24 May 2012
Issue 04	10-SEP-2019	Correction of type mistake	Initial Issue, 24 May 2012
Issue 05	12-JAN-2021	Change of Airworthiness Category from Restricted to Normal; change of manufacturer's address; precision in sections A.II.2 and A.II.3; precision in A.II.7 via TCDSN	Issue 1, 12 January 2021
Issue 06	26-JAN-2023	Addition of propeller DUC SWIRL-3-L and Centre of Gravity Range rear limit airplane with Woodcomp KW-31-033 propeller; Editorial changes	Issue 1, 12 January 2021
Issue 07	09-SEP-2024	Addition of Nose Wheel Tyre Size for wheel and brakes Beringer and insert note for Main Wheel Tyre Size	Issue 1, 12 January 2021
Issue 08	06-MAR-2025	Addition of propeller KW-31 flange code I	Issue 1, 12 January 2021

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