European Aviation Safety Agency

EASA

TYPE-CERTIFICATE
DATA SHEET

OMF-100-160

Manufacturer:

1. OMF GmbH
Flughafenstrasse
17039 Trollenhagen
GERMANY

2. OMF Flugzeugwerke GmbH
Flughafenstrasse
17039 Trollenhagen
GERMANY

3. Symphony Aircraft Industries Inc. (SAI)
Symphony Aircraft Industries Inc
3005 Rue Lindberg
Trois Rivières
Quebec, G9A 5E1
CANADA

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(Reserved)
SECTION 1: OMF-100-160

A.I. General

Data Sheet No.: EASA IM.A.031  Issue: 01  Date: 15 February 2005

1. a) Type: OMF-100
   b) Variant: OMF-100-160

2. Airworthiness Category: Normal Category

3. Type Certificate Holder:
   Symphony Aircraft Industries Inc
   3005 Rue Lindberg
   Trois-Rivières
   Quebec, G9A 5E1
   CANADA

4. Manufacturer:
   S/N 0003 up to 0041:
   Ostmecklenburgische Flugzeugbau GmbH
   Flughafenstrasse
   D - Trollenhagen
   GERMANY

   S/N 0042:
   OMF Flugzeugwerke GmbH
   Flughafenstrasse
   D - Trollenhagen
   GERMANY

   S/N 0043 and up:
   Symphony Aircraft Industries Inc
   3005 Rue Lindberg
   Trois Rivières
   Quebec, G9A 5E1
   CANADA

5. LBA Certification Date: 28 August 2000

6. The EASA Type Certificate and TCDS replace LBA Type Certificate and TCDS No 1107.

A.II. Certification Basis

1. Reference Date for determining the applicable requirements: 6 May 1998

2. (Reserved)

3. (Reserved)

4. Certification Basis: As defined in LBA CRI A-01, latest Issue

5. Airworthiness Requirements: JAR-23, Original issued 11 March 1994

6. Requirements elected to comply: FAR 23.1326, Amdt. 49

7. EASA Special Conditions: none
8. EASA Exemptions: none

9. EASA Equivalent Safety Findings: none

     Emission: N/A

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List DG-OMF100-00000
                              Master Parts List PL-OMF100-00000

2. Description: Single engine, high wing tractor with conventional tail configuration, two-seats (side-by-side), metal construction, fixed tricycle landing gear with nose wheel.

3. Equipment: Equipment List (see AFM)

4. Dimensions:
   Wing Span 10,670 m (35.00 ft)
   Total Length 6,960 m (22.84 ft)
   Maximum Height 2,820 m (9.25 ft)
   Wing Area 11.93 m² (128.4 ft²)

5. Engine/s:
   No.1 Lycoming O-320-D2A
   Certification Basis: CAR 13 amendment 13-3
   LBA Type Certificate No. 4578 dated December 1, 1988

   5.1 Engine Limits: Max rotational speed 2700 r.p.m.
                      Max continuous rotational speed 2700 r.p.m.

6. (Reserved)

7. Propeller/s:
   No.1 MT-Propeller
   MT 186 R 140-3D
   2 blades, fixed propeller
   Diameter: 1854 mm ± 0 mm (73 in)

8. Fluids:
   8.1 Fuel: AVGAS 100LL
   8.2 Oil: Oil in acc. to MIL-L-6082 and MIL-L-22851
   8.3 Coolant: none

9. Fluid capacities:
   9.1 Fuel:
   S/N 0003 up to 0012 S/N0013 an up
   Total: 123 liters 122 liters
   Usable: 114 liters 110 liters
9.2 Oil: Maximum: 7.0 liters

10. Air Speeds (@ MTOW 889 kg):
   Design Manoeuvring Speed $V_A$ 111 KIAS (@ MTOW 975 kg: 116 KIAS)
   Flap Extended Speed (40°) $V_{FE}$ 90 KIAS
   Maximum structural cruising speed $V_{MO}$ 130 KIAS
   Never exceed speed $V_{NE}$ 162 KIAS

11. (Reserved)

12. All weather Capability:
   S/N 0003 up to 0012: VFR day only
   S/N 0013 and up:
   - VFR Day/Night if ÄM 1107/0002 Part 3a installed
   - IFR if ÄM 1107/0002 Part 3b installed
   Flight into expected or actual icing conditions is prohibited

13. Maximum Masses:
   Roll 889 kg
   Take-off 889 kg
   Landing 889 kg
   If ÄM 1107/0002 Part 1 installed:
   Roll 975 kg
   Take-off 975 kg
   Landing 826 kg

14. Centre of Gravity Range:
   Forward limit 2460 mm behind Datum
   Rear limit: 2605 mm behind Datum

15. Datum: 1537 mm in front of firewall

16. (Reserved)

Levelling Means: see Maintenance Manual OMF-100-160

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 1

20. (Reserved)

21. Baggage / Cargo Compartments
   Max. allowable load (fwd and aft) 75 kg
   or  fwd. baggage compartment 45 kg
   aft baggage compartment 45 kg

22. Wheels and Tyres
   Nose Wheel Tyre Size 5.00-5ply
   Main Wheel Tyre Size 5.00-5ply
A.IV. Operating and Service Instructions


S/N 0003 up to 0012: a) Flughandbuch OMF-100-160, LBA approved 25 August 2000 (German version), Rev. 1, November 22, 2000 or any later EASA approved revision

S/N 0013 up to 0022: a) Flughandbuch AM-OMF100-101001-D, LBA approved May 31, 2002 (German version) or any later EASA approved version

S/N 0023 and up: a) Flughandbuch AM-OMF100-101000-D, LBA approved May 6, 2002 (German version) or any later EASA approved version

   Remark: The English versions of the Airplane Flight Manuals mentioned above under b) are restricted for use on US-registered airplanes only.


3. Operating and Installation Instructions for E-112 MT-Wooden/Composite fixed propeller
A.V. Notes

(1) This certification applies to serial numbers 0003 and up.
(2) Noise Data Level determined according to ICAO/Annex 16 Ch. 10 is
   69.4 dB(A) (@ MTOW 889 kg
   73.3 dB(A) (@ MTOW 975 kg

SECTION 2: Changes/Variants

(Reserved)