# TYPE-CERTIFICATE

# DATA SHEET

NO. EASA.A.364

**for**
GROB G 115

**Type Certificate Holder**
GROB Aircraft SE

Lettenbachstrasse 9
86874 Tussenhausen-Mattsies
Germany

For models:
G 115
G 115A
G 115B
G 115C
G 115C2
G 115D
G 115D2
G 115E
G 115EG
G 115TA

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# SECTION A: G 115

## A.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115 | |
| 4. | Sales Designation: | G 115 | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Grob Werke GmbH & Co. KG<br>Unternehmensbereich Burkhart Grob Flugzeugbau<br>8939 Mattsies<br>Am Flugplatz<br><br>Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>8939 Mattsies<br>Am Flugplatz |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Normal<br>Utility | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 31-March-1987 by LBA | |

## A.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965<br>including Amendments 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA letter dated 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL),<br>Issue 01-January 1991 (Note 4) |

## A.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Record Index GROB G 115 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.36 m | (24.15 ft) |
| | | Height | 2.82 m | (9.25 ft) |
| | | Wing Area | 12.21 $m^2$ | (131.4 $ft^2$) |
| 4. | Engine/s: | Type | Avco Lycoming O-235-H2C | |
| | | TCDS No. | FAA E-223 (Note 2) | |
| | | Max RPM | 2800 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| 5. | Propeller/s: | Type 1 | Hoffmann HO 14-175 120 | |
| | | TCDS No. | LBA 32.110/1 | |
| | | Diameter | 1750 mm | (68.89 in.) |
| | | Type 2 | Hoffmann HO 14HM-175 120 | |
| | | TCDS No. | LBA 32.110/1 | |
| | | Diameter | 1750 mm | (68.89 in.) |
| | | Type 3 | Sensenich 72CKS6-2-53 | |
| | | TCDS No. | FAA P-904 (Note 2) | |
| | | Diameter | 1780 mm | (70.08 in.) |
| 6. | Speeds: | Normal Category | | |
| | | $v_{NE}$ (never exceed) | 303 km/h | (164 kts) |
| | | $v_{NO}$ (normal operating) | 250 km/h | (135 kts) |
| | | $v_A$ (maneuvering) | 176 km/h | (95 kts) |
| | | $v_{FE}$ (flaps extended) | 175 km/h | (94 kts) |
| | | Utility Category | | |
| | | $v_{NE}$ (never exceed) | 303 km/h | (164 kts) |
| | | $v_{NO}$ (normal operating) | 250 km/h | (135 kts) |
| | | $v_A$ (maneuvering) | 184 km/h | (99 kts) |
| | | $v_{FE}$ (flaps extended) | 175 km/h | (94 kts) |
| 7. | Kinds of Operation: | VFR day and night<br>Flights into known icing conditions are prohibited. | | |

| | | | | |
|---|---|---|---|---|
| 8. | Masses: | Normal Category | | |
| | | MTOM | 850 kg | |
| | | Max. Landing Mass | 850 kg | |
| | | Utility Category | | |
| | | MTOM | 800 kg | |
| | | Max. Landing Mass | 800 kg | |
| 9. | Centre of Gravity Range: | Reference Datum (BE) | Wing LE at QE 2480 | |
| | | Levelling Reference | Canopy frame bottom edge | |
| | | Normal Category | | |
| | | Most forward C.G. | 221 mm aft of datum at 850 kg<br>199 mm aft of datum at 825 kg or less | |
| | | Most rearward C.G. | 298 mm aft of datum | |
| | | Utility Category | | |
| | | Most forward C.G. | 199 mm aft of datum | |
| | | Most rearward C.G. | 298 mm aft of datum | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment max. baggage mass | 20 kg | |
| 13. | Operating Fluids: | Fuel capacity total | 100 liters | (26.42 U.S. gal) |
| | | Useable fuel | 91.7 liters | (24.23 U.S. gal) |
| | | Oil capacity total | 5.7 liters | (6 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual Chapter 6 | | |

## A.IV Operating and Service Instructions (Note 6)

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual (POH) GROB G 115 including approved supplements. German Issue 2, Revision 2 or later, English Issue 2, Rev. 2 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual 115AB.MM.002-E Issue 2, Revision 0 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115<br>Service Bulletins and Service Letters |

## A.V Notes

1. This EASA TCDS, Section A is based on LBA TCDS no. 1078 for Model G 115, Issue 4 as of April 1993. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 8007 up to 8088

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB 1078-142.

7. S/N 8007 contains deviations compared with the other series aircraft. These are defined within the Modification Information of GROB TFE No. 1078-8007, dated 16-October-1987. Consideration of this modification information of GROB has to be confirmed in the acceptance report and in any inspection report in the corresponding inspection certificate under “Remarks and Comments”.

8. The installation of the Sensenich propeller according to Service Bulletin TM1078-7 is permitted. Such equipped aircrafts are to be operated according to the LBA approved pages of the Flight Manual included in the Service Bulletin TM1078-7.

9. For G115 models, the operational Service Life is extended from 12.000FH on, if additional 12.000FH inspection i.a.w. MSB1078-161, latest approved issue, is accomplished.

## SECTION B: G 115A

### B.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115A | |
| 4. | Sales Designation: | G 115A | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>8939 Mattsies<br>Am Flugplatz |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Normal<br>Utility | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 30-October-1989 by LBA | |

### B.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965<br>including Amendments 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA letter dated 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL),<br>Issue 01-January-1991 (Note 4) |

## B.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Record Index GROB G 115 as of S/N 8090, dated 10-October-1989 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.36 m | (24.15 ft) |
| | | Height | 2.82 m | (9.25 ft) |
| | | Wing Area | 12.21 m² | (131.4 ft²) |
| 4. | Engine/s: | Type | Avco Lycoming O-235-H2C | |
| | | TCDS No. | FAA E-223 (Note 2) | |
| | | Max RPM | 2800 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| 5. | Propeller/s: | Type 1 | Hoffmann HO 14-175 120 | |
| | | TCDS No. | LBA 32.110/1 | |
| | | Diameter | 1750 mm | (68.89 in.) |
| | | Type 2 | Hoffmann HO 14HM-175 120 | |
| | | TCDS No. | LBA 32.110/1 | |
| | | Diameter | 1750 mm | (68.89 in.) |
| | | Type 3 | Sensenich 72CKS6-2-53 | |
| | | TCDS No. | FAA P-904 (Note 2) | |
| | | Diameter | 1780 mm | (70.08 in.) |
| 6. | Speeds: | Normal Category | | |
| | | $v_{NE}$ (never exceed) | 303 km/h | (164 kts) |
| | | $v_{NO}$ (normal operating) | 250 km/h | (135 kts) |
| | | $v_A$ (maneuvering) | 176 km/h | (95 kts) |
| | | $v_{FE}$ (flaps extended) | 175 km/h | (94 kts) |
| | | Utility Category | | |
| | | $v_{NE}$ (never exceed) | 303 km/h | (164 kts) |
| | | $v_{NO}$ (normal operating) | 250 km/h | (135 kts) |
| | | $v_A$ (maneuvering) | 184 km/h | (99 kts) |
| | | $v_{FE}$ (flaps extended) | 175 km/h | (94 kts) |
| 7. | Kinds of Operation: | VFR day and night<br>Flights into known icing conditions are prohibited. | | |

| | | | | |
|---|---|---|---|---|
| 8. | Masses: | <u>Normal Category</u> | | |
| | | MTOM | 850 kg | |
| | | Max. Landing Mass | 850 kg | |
| | | <u>Utility Category</u> | | |
| | | MTOM | 800 kg | |
| | | Max. Landing Mass | 800 kg | |
| 9. | Centre of Gravity Range: | Reference Datum (BE) | Wing LE at QE 2480 | |
| | | Levelling Reference | Canopy frame bottom edge | |
| | | <u>Normal Category</u> | | |
| | | Most forward C.G. | 221 mm aft of datum at 850 kg<br>199 mm aft of datum at 825 kg or less | |
| | | Most rearward C.G. | 298 mm aft of datum | |
| | | <u>Utility Category</u> | | |
| | | Most forward C.G. | 199 mm aft of datum | |
| | | Most rearward C.G. | 298 mm aft of datum | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment max. baggage mass | 20 kg | |
| 13. | Operating Fluids: | Fuel capacity total | 100 liters | (26.42 U.S. gal) |
| | | Useable fuel | 91.7 liters | (24.23 U.S. gal) |
| | | Oil capacity total | 5.7 liters | (6 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual Chapter 6 | | |

## B.IV Operating and Service Instructions (Note 6)

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual (POH) GROB G 115 including approved supplements. German Issue 2, Revision 2 or later, English Issue 2, Rev. 2 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual 115AB.MM.002-E Issue 2, Revision 0 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115<br>Service Bulletins and Service Letters |

## B.V Notes

1. This EASA TCDS, Section B is based on LBA TCDS no. 1078 for Model G 115A, Issue 4 as of April 1993. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 8090 up to 8109

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-142.

7. The installation of the Sensenich propeller according to Service Bulletin TM1078-7 is permitted. Such equipped aircrafts are to be operated according to the LBA approved pages of the Flight Manual included in the Service Bulletin TM1078-7.

8. For G115A models, the operational Service Life is extended from 12.000FH on, if additional 12.000FH inspection i.a.w. MSB1078-161 latest approved issue, is accomplished

 

## SECTION C: G 115B

### C.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115B | |
| 4. | Sales Designation: | G 115B | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>8939 Mattsies<br>Am Flugplatz<br><br>Grob Werke GmbH & Co. KG<br>Unternehmensbereich Burkhart Grob Flugzeugbau<br>8939 Mattsies<br>Am Flugplatz |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Normal<br>Utility | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 08-April-1993 by LBA | |

### C.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965 including Amendments 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA letter dated 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL), Issue 01-January-1991 (Note 4) |

## C.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Record Index GROB G 115B dated 16-February-1993 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.36 m | (24.15 ft) |
| | | Height | 2.82 m | (9.25 ft) |
| | | Wing Area | 12.21 m² | (131.4 ft²) |
| 4. | Engine/s: | Type 1 | Avco Lycoming O-320-D2A | |
| | | TCDS No. | FAA E-274 (Note 2) | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| | | Type 2 | Avco Lycoming O-320-D1A | |
| | | TCDS No. | FAA E-274 (Note 2) | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| | | Type 3 | Avco Lycoming O-320-D3G | |
| | | TCDS No. | FAA E-274 (Note 2) | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| 5. | Propeller/s: | Type | Sensenich 74DM6S5-2-64 | |
| | | TCDS No. | FAA P-886 (Note 2) | |
| | | Diameter | 1830 mm | (72.05 in.) |
| 6. | Speeds: | Normal Category | | |
| | | $v_{NE}$ (never exceed) | 295 km/h | (159 kts) |
| | | $v_{NO}$ (normal operating) | 240 km/h | (129 kts) |
| | | $v_A$ (maneuvering) | 186 km/h | (100 kts) |
| | | $v_{FE}$ (flaps extended) | 175 km/h | (94 kts) |
| | | Utility Category | | |
| | | $v_{NE}$ (never exceed) | 295 km/h | (159 kts) |
| | | $v_{NO}$ (normal operating) | 240 km/h | (129 kts) |
| | | $v_A$ (maneuvering) | 192 km/h | (104 kts) |
| | | $v_{FE}$ (flaps extended) | 175 km/h | (94 kts) |
| 7. | Kinds of Operation: | VFR day and night<br>Flights into known icing conditions are prohibited. | | |

| | | | | |
|---|---|---|---|---|
| 8. | Masses: | Normal Category | | |
| | | MTOM | 920 kg | |
| | | Max. Landing Mass | 920 kg | |
| | | Utility Category | | |
| | | MTOM | 850 kg | |
| | | Max. Landing Mass | 850 kg | |
| 9. | Centre of Gravity Range: | Reference Datum (BE) | Wing LE at QE 2480 | |
| | | Levelling Reference | Canopy frame bottom edge | |
| | | Normal Category | | |
| | | Most forward C.G. | 255 mm aft of datum at 920 kg<br>199 mm aft of datum at 840 kg or less | |
| | | Most rearward C.G. | 298 mm aft of datum | |
| | | Utility Category | | |
| | | Most forward C.G. | 255 mm aft of datum at 850 kg<br>199 mm aft of datum at 800 kg or less | |
| | | Most rearward C.G. | 298 mm aft of datum | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment max. baggage mass | 20 kg | |
| 13. | Operating Fluids: | Fuel capacity total | 112 liters | (29.59 U.S. gal) |
| | | Useable fuel | 107 liters | (28.27 U.S. gal) |
| | | Oil capacity total | 7.6 liters | (8.0 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual Chapter 6 | | |

## C.IV Operating and Service Instructions (Note 6)

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual GROB G 115B including approved supplements.<br>German Issue 1, Rev. 0 or later, English Issue 1, Rev. 1 or later, |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual 115AB.MM.002-E Issue 2, Revision 0 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115B<br>Service Bulletins and Service Letters |

## C.V Notes

1. This EASA TCDS, Section C is based on LBA TCDS no. 1078 for Model G 115B, Issue 1 as of April 1993. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. The Model G 115B is derived from Model G 115 and Model G 115A by optional conversion in accordance with Service Bulletin TM1078-27, which is valid for S/N´s 8008 up to 8088 and 8090 up to 8109.

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-143.

7. For G115B models, the operational Service Life is extended from 12.000FH on, if additional 12.000FH inspection i.a.w. MSB1078-161, latest approved issue, is accomplished.

 

# SECTION D: G 115C

## D.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115C | |
| 4. | Sales Designation: | G 115C / G 115C1 ACRO (Note 8) | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>8939 Mattsies<br>Am Flugplatz |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Utility<br>Acrobatic (Note 8) | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 05-August-1993 by LBA | |

## D.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965<br>including Amendments 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA letter I335-1078/93/B1 as of 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL), Issue 01-January-1991 (Note 4) |

## D.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Record Index GROB G 115C dated 09-July-1993 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.53 m | (24.7 ft) |
| | | Height | 2.82 m | (9.25 ft) |
| | | Wing Area | 12.21 m² | (131.4 ft²) |
| 4. | Engine/s: | Type | Avco Lycoming O-320-D1A | |
| | | TCDS No. | FAA E-274 (Note 2) | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| 5. | Propeller/s: | Type | Sensenich 74DM7S14-2-64 | |
| | | TCDS No. | FAA P-886 (Note 2) | |
| | | Diameter | 1830 mm | (72.05 in.) |
| 6. | Speeds: | Utility Category | | |
| | | $v_{NE}$ (never exceed) | 341 km/h | (184 kts) |
| | | $v_{NO}$ (normal operating) | 248 km/h | (134 kts) |
| | | $v_A$ (maneuvering) | 212 km/h | (114 kts) |
| | | $v_{FE}$ (flaps extended) | 208 km/h | (112 kts) |
| 7. | Kinds of Operation: | VFR day and night, IFR<br>Flights into known icing conditions are prohibited. | | |
| 8. | Masses: | Utility Category | | |
| | | MTOM | 990 kg | |
| | | Max. Landing Mass | 990 kg | |
| 9. | Center of Gravity Range: | Reference Datum (BE) | Wing LE at QE 2480 | |
| | | Leveling Reference | Canopy frame bottom edge | |
| | | Utility Category | | |
| | | Most forward C.G. | 227 mm aft of datum at 990 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 298 mm aft of datum at 990 kg<br>288 mm aft of datum at 750 kg | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |

| | | | | |
|---|---|---|---|---|
| 12. | Baggage: | Baggage compartment<br>max. baggage mass | <br>55 kg | |
| 13. | Operating Fluids: | Fuel capacity total<br>Useable fuel<br>Oil capacity total | 150 liters<br>143 liters<br>7.6 liters | (39.63 U.S. gal)<br>(37.77 U.S. gal)<br>(8.0 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual G 115C/D Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual G 115C/D Chapter 6 | | |

## D.IV Operating and Service Instructions (Note 6)

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual GROB G 115C including approved supplements. German Issue 2, Rev. 6 or later, English Issue 2, Rev. 6 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual GROB G 115C/D. English Issue 3, Rev. 7 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115C/D<br>Service Bulletins and Service Letters |

## D.V Notes

1. This EASA TCDS, Section D is based on LBA TCDS no. 1078 for Model G 115C, Issue 4 as of January 1996. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 82001/C and further S/N´s with the extension /C.

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-144.

 

7. Deviating from Section D.IV 1: S/N 82001/C has to be operated with Flight Manual Grob G 115C, Issue 1, dated 03-Mai-1993.

8. Model G 115C airplanes from S/N 82005/C are approved for limited acrobatic operation in the acrobatic category following accomplishment of Service Bulletin TM1078-55. The equipment specified in TM1078-55 may either be installed in full or partially ex works. The Sales Designation of these airplanes is “G 115C1 ACRO”. This variant of the Model G 115C was certified on 18-January-1996.

   The converted S/N´s are identified by a “1” behind the /C.

   Supplement 2 to the Flight Manual G 115C, LBA approved 18-January-1996, latest revision, applies for operation in the acrobatic category.

   The variant deviates from the baseline Model G 115C as follows:

| | | |
|---|---|---|
| Section D.III 6.: | <u>Acrobatic Category</u> | |
| | $v_A$ (maneuvering) | 237 km/h (128 kts) |
| Section D.III 8.: | <u>Acrobatic Category</u> | |
| | MTOWM | 920 kg |
| | Max. Landing Mass | 920 kg |
| Section D.III 9.: | <u>Acrobatic Category</u> | |
| | Most forward C.G. | 219 mm aft of datum at 920 kg |
| | | 197 mm aft of datum at 750 kg |
| | Most rearward C.G. | 295 mm aft of datum at 920 kg |
| | | 288 mm aft of datum at 750 kg |

9. For G115C models with Service Bulletin TM1078-55 NOT accomplished the operational Service Life is extended from 12.000FH on, if additional 12.000FH inspection i.a.w. MSB1078-161, latest approved issue, is accomplished.

   For G115C models with Service Bulletin TM1078-55 accomplished (models with sales designation G115C1 ACRO) the Service Life is NOT extended.

# SECTION E: G 115C2

## E.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115C2 | |
| 4. | Sales Designation: | G 115C2 | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>8939 Mattsies<br>Am Flugplatz |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Utility | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 17-June-1994 by LBA | |

## E.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965<br>including Amendments 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA letter I335-1078/93/B1 as of 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL), Issue 01-January-1991 (Note 4) |

## E.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Record Index GROB G 115C dated 09-July-1993 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.53 m | (24.7 ft) |
| | | Height | 2.82 m | (9.25 ft) |
| | | Wing Area | 12.21 m² | (131.4 ft²) |
| 4. | Engine/s: | Type | Avco Lycoming O-360-A1F6 | |
| | | TCDS No. | FAA E-286 (Note 2) | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| 5. | Propeller/s: | Type | Hartzell HC-F2YR-1F/F7666A-3R | |
| | | TCDS No. | FAA P27EA (Note 2) | |
| | | Diameter | 1855 mm | (73.03 in.) |
| 6. | Speeds: | $v_{NE}$ (never exceed) | 341 km/h | (184 kts) |
| | | $v_{NO}$ (normal operating) | 248 km/h | (134 kts) |
| | | $v_A$ (maneuvering) | 212 km/h | (114 kts) |
| | | $v_{FE}$ (flaps extended) | 208 km/h | (112 kts) |
| 7. | Kinds of Operation: | VFR day and night, IFR<br>Flights into known icing conditions are prohibited. | | |
| 8. | Masses: | MTOM | 990 kg | |
| | | Max. Landing Mass | 990 kg | |
| 9. | Centre of Gravity Range: | Reference Datum (BE) | Wing LE at QE 2480 | |
| | | Levelling Reference | Canopy frame bottom edge | |
| | | Most forward C.G. | 227 mm aft of datum at 990 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 298 mm aft of datum at 990 kg<br>288 mm aft of datum at 750 kg | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment max. baggage mass | 55 kg | |

| | | | | |
|---|---|---|---|---|
| 13. | Operating Fluids: | Fuel capacity total<br>Useable fuel<br>Oil capacity total | 150 liters<br>143 liters<br>7.6 liters | (39.63 U.S. gal)<br>(37.77 U.S. gal)<br>(8.0 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual Chapter 6 | | |

## E.IV Operating and Service Instructions (Note 6)

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual GROB G 115C2 including approved supplements. German Issue 1, Rev. 3 or later, English Issue 1, Rev. 5 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual GROB G 115C/D. English Issue 3, Rev. 7 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115C/D<br>Service Bulletins and Service Letters |

## E.V Notes

1. This EASA TCDS, Section E is based on LBA TCDS no. 1078 for Model G 115C2, Issue 2 as of March 1995. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 82015/C2 and further S/N´s with the extension /C2.

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-144.

7. For G 115C2 models, the operational Service Life is extended from 12.000FH on, if additional 12.000FH inspection i.a.w. MSB1078-161, latest approved issue, is accomplished.

 

## SECTION F: G 115D

### F.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115D | |
| 4. | Sales Designation: | G 115D | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>Flugplatz Mattsies<br>86874 Tussenhausen |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Utility<br>Acrobatic | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 23-September-1993 by LBA | |

### F.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965<br>including Amendments 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA letter I335-1078/93/B1 as of 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL), Issue 01-January-1991 (Note 4) |

 

## F.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Record Index GROB G 115D dated 07-September-1993 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.6 m | (24.9 ft) |
| | | Height | 2.82 m | (9.25 ft) |
| | | Wing Area | 12.21 m² | (131.4 ft²) |
| 4. | Engine/s: | Type | Avco Lycoming AEIO-360-B1F | |
| | | TCDS No. | FAA 1E10 (Note 2)<br>EASA.IM.E.032 | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2500 1/min | |
| 5. | Propeller/s: | Type 1 | Hoffmann<br>HO-V 343 K()-V/180FP | |
| | | TCDS No. | LBA 32.130/90 | |
| | | Diameter | 1800 mm | (70.86 in.) |
| | | Type 2 | Mühlbauer<br>MTV-12-B-C/C183-17e | |
| | | TCDS No. | EASA.P.013 | |
| | | Diameter | 1830 mm | (72.05 in.) |
| 6. | Speeds: | <u>Utility Category</u> | | |
| | | $v_{NE}$ (never exceed) | 341 km/h | (184 kts) |
| | | $v_{NO}$ (normal operating) | 248 km/h | (134 kts) |
| | | $v_A$ (maneuvering) | 212 km/h | (114 kts) |
| | | $v_{FE}$ (flaps extended) | 208 km/h | (112 kts) |
| | | <u>Acrobatic Category</u> | | |
| | | $v_{NE}$ (never exceed) | 341 km/h | (184 kts) |
| | | $v_{NO}$ (normal operating) | 248 km/h | (134 kts) |
| | | $v_A$ (maneuvering) | 237 km/h | (128 kts) |
| | | $v_{FE}$ (flaps extended) | 208 km/h | (112 kts) |
| 7. | Kinds of Operation: | VFR day and night, IFR<br>Flights into known icing conditions are prohibited. | | |
| 8. | Masses: | <u>Utility Category</u> | | |
| | | MTOM | 990 kg | |
| | | Max. Landing Mass | 990 kg | |
| | | <u>Acrobatic Category</u> | | |
| | | MTOM | 920 kg | |
| | | Max. Landing Mass | 920 kg | |

| | | | | |
|---|---|---|---|---|
| 9. | Centre of Gravity Range: | Reference Datum (BE)<br>Levelling Reference | Wing LE at QE 2480<br>Canopy frame bottom edge | |
| | | <u>Utility Category</u><br>Most forward C.G. | 227 mm aft of datum at 990 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 298 mm aft of datum at 990 kg<br>288 mm aft of datum at 750 kg | |
| | | <u>Acrobatic Category</u><br>Most forward C.G. | 219 mm aft of datum at 920 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 295 mm aft of datum at 920 kg<br>288 mm aft of datum at 750 kg | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment<br>max. baggage mass | <br>55 kg | |
| 13. | Operating Fluids: | Fuel capacity total<br>Useable fuel<br>Oil capacity total | 150 liters<br>143 liters<br>7.6 liters | (39.63 U.S. gal)<br>(37.77 U.S. gal)<br>(8.0 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual G 115C/D Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual G 115C/D Chapter 6 | | |

## F.IV <u>Operating and Service Instructions (Note 6)</u>

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual GROB G 115D including approved supplements. German Issue 2, Rev. 4 or later, English Issue 2, Rev. 6 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual GROB G 115C/D. English Issue 3, Rev. 5 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115C/D<br>Service Bulletins and Service Letters |

## F.V Notes

1. This EASA TCDS, Section F is based on LBA TCDS no. 1078 for Model G 115D, Issue 4 as of October 1997. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 82003/D and further S/N´s with the extension /D.

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-144.

7. Deviating from Section F.IV 1: S/N 82003/D has to be operated with Flight Manual Grob G 115D, Issue 1, dated 03-Mai-1993.

## SECTION G: G 115D2

### G.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115D2 | |
| 4. | Sales Designation: | G 115D2 | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>Flugplatz Mattsies<br>86874 Tussenhausen |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Utility<br>Acrobatic | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 17-February-1994 by LBA | |

### G.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965 including Amendments 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA letter I335-1078/93/B1 as of 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL), Issue 01-January-1991 (Note 4) |

## G.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Record Index GROB G 115D including “Änderungsliste zur ÄM 1078-6” dated 17-January-1994 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.6 m | (24.9 ft) |
| | | Height | 2.82 m | (9.25 ft) |
| | | Wing Area | 12.21 $m^2$ | (131.4 $ft^2$) |
| 4. | Engine/s: | Type | Avco Lycoming AEIO-320-D1B | |
| | | TCDS No. | FAA 1E12 (Note 2) | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| 5. | Propeller/s: | Type | Hoffmann HO 23 CHM-() 188 156 | |
| | | TCDS No. | LBA 32.110/1 | |
| | | Diameter | 1880 mm | (74.02 in.) |
| 6. | Speeds: | <u>Utility Category</u> | | |
| | | $v_{NE}$ (never exceed) | 308 km/h | (166 kts) |
| | | $v_{NO}$ (normal operating) | 248 km/h | (134 kts) |
| | | $v_A$ (maneuvering) | 212 km/h | (114 kts) |
| | | $v_{FE}$ (flaps extended) | 208 km/h | (112 kts) |
| | | <u>Acrobatic Category</u> | | |
| | | $v_{NE}$ (never exceed) | 308 km/h | (166 kts) |
| | | $v_{NO}$ (normal operating) | 248 km/h | (134 kts) |
| | | $v_A$ (maneuvering) | 237 km/h | (128 kts) |
| | | $v_{FE}$ (flaps extended) | 208 km/h | (112 kts) |
| 7. | Kinds of Operation: | VFR day and night, IFR<br>Flights into known icing conditions are prohibited. | | |
| 8. | Masses: | <u>Utility Category</u> | | |
| | | MTOM | 990 kg | |
| | | Max. Landing Mass | 990 kg | |
| | | <u>Acrobatic Category</u> | | |
| | | MTOM | 920 kg | |
| | | Max. Landing Mass | 920 kg | |

| | | | | |
|---|---|---|---|---|
| 9. | Centre of Gravity Range: | Reference Datum (BE)<br>Levelling Reference | Wing LE at QE 2480<br>Canopy frame bottom edge | |
| | | <u>Utility Category</u><br>Most forward C.G. | 227 mm aft of datum at 990 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 298 mm aft of datum at 990 kg<br>288 mm aft of datum at 750 kg | |
| | | <u>Acrobatic Category</u><br>Most forward C.G. | 219 mm aft of datum at 920 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 295 mm aft of datum at 920 kg<br>288 mm aft of datum at 750 kg | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment<br>max. baggage mass | <br>55 kg | |
| 13. | Operating Fluids: | Fuel capacity total<br>Useable fuel<br>Oil capacity total | 150 liters<br>143 liters<br>7.6 liters | (39.63 U.S. gal)<br>(37.77 U.S. gal)<br>(8.0 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual G 115C/D Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual G 115C/D Chapter 6 | | |

## G.IV <u>Operating and Service Instructions (Note 6)</u>

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual (POH) GROB G 115D2 including approved supplements. German Issue 1, Rev. 6 or later, English Issue 1, Rev. 11 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual GROB G 115C/D. English Issue 3, Rev. 5 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115C/D<br>Service Bulletins and Service Letters |

## G.V Notes

1. This EASA TCDS, Section G is based on LBA TCDS no. 1078 for Model G 115D2, Issue 4 as of March 1995. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 82002/D2 and further S/N´s with the extension /D2.

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-144.

7. S/N 82002/D2 contains modifications compared with other production aircraft. These are defined by the Concession Production Permits No. 82002/01 through -/06 and No. 82002E01 through E11. Therefore, this aircraft must be operated differing from section G.IV according to the Flight Manual GROB G 115D2 (German version), Issue 1, dated 12-December-1994, LBA approved 28-February-1995. In addition, the aircraft is limited to VFR day operation, an upgrade to IFR and/or VFR Night operation is not permitted due to technical reasons. Also, the aircraft must be maintained by the aircraft manufacturer.

## SECTION H: G 115E

### H.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115E | |
| 4. | Sales Designation: | G 115E<br>With OCN 1078-268 and -269 installed: G 115BD | |
| 5. | Manufacturer: | S/N´s 82086/E through 82199/E | Dr. hc. Mult. Dipl.-Ing. Burkhart Grob e.K.<br>Unternehmensbereich Luft- und Raumfahrt<br>Lettenbachstrasse 9<br>86874 Tussenhausen |
| | | S/N´s 82301/E through 82323/E | GROB Aircraft AG<br>Lettenbachstrasse 9<br>86874 Tussenhausen-Mattsies |
| | | Later S/N´s and Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Acrobatic<br>With OCN 1078-269: Utility | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 09-July-1999 by LBA | |

 

## H.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965 including Amdt. 1 – 32, 23.1323 Amdt. 49<br><br>For change no. OCN 1078-268:<br>CS-23 Amdt. 4: 23.1306 and 23.1308<br>CS-ACNS Issue 4 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA circular I335-1078/93/B1 as of 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures<br><br>For change no. OÄM1078-068:<br>SC-F23.1309-02, Protection from the effects of HIRF |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Without OCN 1078-269:<br>Model G 115E is exempted from the proof of noise protection requirements (LSL, exemption acrobatic aircraft)<br><br>With OCN 1078-269:<br>CS-36 Amdt. 6 |

## H.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Master Document Index Model G 115E, DE-G115E-000100; Revision 0 or later approved issue (Note 7) | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.54 m | (24.7 ft) |
| | | Height | 2.4 m | (7.9 ft) |
| | | Wing Area | 12.21 m² | (131.4 ft²) |
| 4. | Engine/s: | Type | Avco Lycoming AEIO-360-B1F | |
| | | TCDS No. | FAA 1E10 (Note 2)<br>EASA.IM.E.032 | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |

| | | | | |
|---|---|---|---|---|
| 5. | Propeller/s: (Note 8) | Type | Hoffmann HO-V 343 K-V/183 GY | |
| | | TCDS No. | LBA 32.130/90 | |
| | | Diameter | 1830 mm | (72.05 in.) |
| 6. | Speeds: | $v_{NE}$ (never exceed) | (341 km/h) | 184 kts |
| | | $v_{NO}$ (normal operating) | (278 km/h) | 150 kts |
| | | $v_A$ (maneuvering) | (241 km/h) | 130 kts |
| | | $v_{FE}$ (flaps extended) | (204 km/h) | 110 kts |
| | | with OCN 1078-269: | | |
| | | $v_A$ (maneuvering) | (205 km/h) | 111 kts |
| 7. | Kinds of Operation: | VFR day and night, IFR<br>Flights into known icing conditions are prohibited. | | |
| 8. | Masses: | MTOM | 990 kg | |
| | | Max. Landing Mass | 990 kg | |
| 9. | Centre of Gravity Range: | Reference Datum (BE) | Wing LE at QE 2480 | |
| | | Levelling Reference | Canopy frame bottom edge | |
| | | Most forward C.G. | 217 mm aft of datum at 990 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 298 mm aft of datum at 990 kg<br>288 mm aft of datum at 750 kg | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment max. baggage mass | 55 kg | |
| 13. | Operating Fluids: | Fuel capacity total | 150 liters | (39.63 U.S. gal) |
| | | Useable fuel | 143 liters | (37.77 U.S. gal) |
| | | Oil capacity total | 7.8 liters | (8.2 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual G 115E Chapter 05-10 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual G 115E Chapter 27-00 | | |

## H.IV Operating and Service Instructions (Note 6)

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual GROB G 115E, Doc. No.: 115.PO.025-E including approved supplements. English Issue 2, Rev. 10 or later<br><br>With OCN 1078-268 and -269:<br>Flight Manual G 115BD, Doc. No.: 1T-115BD-1 |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual GROB G 115E; English Issue 2, Revision 5 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115E<br>Service Bulletins and Service Letters |

## H.V Notes

1. This EASA TCDS, Section H is based on LBA TCDS no. 1078 for Model G 115E, Issue 5 as of June 2002. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 82086/E to 82199/E and further S/N´s from S/N 82301 on with the extension /E.

4. With OCN 1078-269: For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-145.

7. Besides the general changes specified in chapter “Change Record”, the section H of this EASA TCDS includes the following updates compared with the LBA TCDS no. 1078 for Model G 115E, Issue 5:
   - Amendment of Certification basis and Special Condition in section H.II as introduced for certification of the Major Change in accordance with change note OÄM1078-068 for optional equipment,
   - changed type definition reference in section H.III.

8. Aircraft S/N 82330/E on are equipped ex-works with MT Propeller MTV-12-B-C/C183-17e i.a.w. STC 10043263 by MT-Propeller Entwicklung GmbH.

## SECTION J: G 115EG

### J.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115EG | |
| 4. | Sales Designation: | G 115EG | |
| 5. | Manufacturer: | S/N´s 82085 and 82200 to 82273 | GROB-Werke<br>Burkhart Grob e. K.<br>Unternehmensbereich Luft- und Raumfahrt<br>Lettenbachstrasse 9<br>86874 Tussenhausen-Mattsies<br><br>Dr. hc. Mult. Dipl.-Ing. Burkhart Grob e.K.<br>Unternehmensbereich Luft- und Raumfahrt<br>Lettenbachstrasse 9<br>86874 Tussenhausen<br><br>Grob-Werke GmbH & Co. KG<br>Am Flugplatz<br>86874 Tussenhausen-Mattsies |
| | | Later S/N´s and Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Acrobatic | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 17-November-2000 by LBA | |

## J.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 dated 01-February-1965 including Amdt. 1 – 32 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | According to LBA circular I335-1078/93/B1 as of 02-April-1993 concerning fatigue and damage tolerance substantiation of composite structures |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Model G 115EG is exempted from the proof of noise protection requirements (LSL, exemption acrobatic aircraft) |

## J.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according to Master Drawing Index Model G 115EG, dated 31-July-2000 | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with fixed landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.0 m | (32.8 ft) |
| | | Length | 7.54 m | (24.7 ft) |
| | | Height | 2.4 m | (7.9 ft) |
| | | Wing Area | 12.21 m² | (131.4 ft²) |
| 4. | Engine/s: | Type | Avco Lycoming AEIO-360-B1B | |
| | | TCDS No. | FAA 1E10 (Note 2)<br>EASA.IM.E.032 | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2700 1/min | |
| 5. | Propeller/s: | Type | Mühlbauer MTV-12-B-C/C183-17e | |
| | | TCDS No. | EASA.P.013 | |
| | | Diameter | 1830 mm | (72.05 in.) |
| 6. | Speeds: | $v_{NE}$ (never exceed) | (341 km/h) | 184 kts |
| | | $v_{NO}$ (normal operating) | (278 km/h) | 150 kts |
| | | $v_A$ (maneuvering) | (241 km/h) | 130 kts |
| | | $v_{FE}$ (flaps extended) | (204 km/h) | 110 kts |
| 7. | Kinds of Operation: | VFR day and night<br>Flights into known icing conditions are prohibited. | | |

| | | | | |
|---|---|---|---|---|
| 8. | Masses: | MTOM<br>Max. Landing Mass | 990 kg<br>990 kg | |
| 9. | Centre of Gravity Range: | Reference Datum (BE)<br>Levelling Reference | Wing LE at QE 2480<br>Canopy frame bottom edge | |
| | | Most forward C.G. | 217 mm aft of datum at 990 kg<br>197 mm aft of datum at 750 kg | |
| | | Most rearward C.G. | 298 mm aft of datum at 990 kg<br>288 mm aft of datum at 750 kg | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment<br>max. baggage Mass | <br>55 kg | |
| 13. | Operating Fluids: | Fuel capacity total<br>Useable fuel<br>Oil capacity total | 150 liters<br>143 liters<br>7.8 liters | (39.63 U.S. gal)<br>(37.77 U.S. gal)<br>(8.2 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Documents G 115EG Chapter 05-10 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Documents G 115EG Chapter 27-00 | | |

## J.IV Operating and Service Instructions (Note 6)

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual GROB G 115EG including approved supplements. German Issue 1, Rev. 0 or later, English Issue 1, Rev. 1 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Documents GROB G 115EG. English Issue 1, Revisions see Service Bulletin named in note 5. |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115EG<br>Service Bulletins and Service Letters |

## J.V Notes

1. This EASA TCDS, Section J is based on LBA TCDS no. 1078 for Model G 115EG, Issue 2 as of June 2002. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 82200 up to 82273 and, in case production will be resumed, for later Model G 115EG airplanes, which will be identified with the extension /EG to their S/N. This TCDS also applies to the G 115EG, S/N 82085, which has been operated under a Permit to Fly by GROB, in case the airplane will be subject to conformity inspection and registration.

4. Reserved

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-146.

 

# SECTION K: G 115TA

## K.I General

| | | | |
|---|---|---|---|
| 1. | Data Sheet No.: | EASA.A.364 (Note 1) | |
| 2. | Type: | G 115 | |
| 3. | Model: | G 115TA | |
| 4. | Sales Designation: | G 115TA | |
| 5. | Manufacturer: | Original Airplane Manufacturer: | Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG<br>Flugplatz Mattsies<br>86874 Tussenhausen |
| | | Spare Parts: | See TC-Holder |
| 6. | Airplane Category: | Utility<br>Acrobatic | |
| 7. | EASA Application Date: | - | |
| 8. | Certification Date: | 05-December-1996 by LBA | |

## K.II Certification Basis

| | | |
|---|---|---|
| 1. | Certification Basis: | See 2. |
| 2. | Airworthiness Requirements: | FAR Part 23 including Amendments 1 – 45, excluding Amendment 44 |
| 3. | Requirements Elected to Comply: | None |
| 4. | Special Conditions: | “Protection for Electrical and Electronic Systems from High Intensity Radiated Fields (HIRF)”, LBA Az.: I 331 as of 07-May-1996 |
| 5. | Equivalent Safety Findings: | None |
| 6. | Environmental Standards: | Lärmschutzforderungen für Luftfahrzeuge (LSL), Issue 01-January-1991 (Note 4) |

## K.III Technical Characteristics and Operational Limits

| | | | | |
|---|---|---|---|---|
| 1. | Type Definition Reference: | Drawings according Master Drawing Index GROB G 115TA dated 25-November-1996 in combination with the Equipment List in the Flight Manual | | |
| 2. | General Design Features: | Single engine, low-wing cantilever monoplane in composite construction, with retractable landing gear in nose wheel arrangement, normal tail plane | | |
| 3. | Dimensions: | Span | 10.19 m | (33.4 ft) |
| | | Length | 8.07 m | (26.5 ft) |
| | | Height | 2.75 m | (9.0 ft) |
| | | Wing Area | 13.29 $m^2$ | (142.95 $ft^2$) |
| 4. | Engine/s: | Type | Avco Lycoming AEIO-540-D4D5 | |
| | | TCDS No. | FAA 1E4 (Note 2) | |
| | | Max RPM | 2700 1/min | |
| | | Max cont. RPM | 2500 1/min | |
| 5. | Propeller/s: | Type | Hartzell HC-C3YR-4BF/FC7663R | |
| | | TCDS No. | FAA P25EA (Note 2) | |
| | | Diameter | 1981 mm | (78.0 in.) |
| 6. | Speeds: | Utility Category | | |
| | | $v_{NE}$ (never exceed) | (396 km/h) | 214 kts |
| | | $v_{NO}$ (normal operating) | (319 km/h) | 172 kts |
| | | $v_A$ (maneuvering) | (259 km/h) | 140 kts |
| | | $v_{FE}$ (flaps extended) | (211 km/h) | 114 kts |
| | | $v_{LO}$ (LG extension) | (252 km/h) | 136 kts |
| | | $v_{LE}$ (LG extended) | (296 km/h) | 160 kts |
| | | Acrobatic Category | | |
| | | $v_{NE}$ (never exceed) | (435 km/h) | 235 kts |
| | | $v_{NO}$ (normal operating) | (319 km/h) | 172 kts |
| | | $v_A$ (maneuvering) | (296 km/h) | 160 kts |
| | | $v_{FE}$ (flaps extended) | (211 km/h) | 114 kts |
| | | $v_{LO}$ (LG extension) | (252 km/h) | 136 kts |
| | | $v_{LE}$ (LG extended) | (296 km/h) | 160 kts |
| 7. | Kinds of Operation: | VFR day and night<br>Flights into known icing conditions are prohibited. | | |
| 8. | Masses: | Utility Category | | |
| | | MTOM | 1440 kg | |
| | | Max. Landing Mass | 1440 kg | |
| | | Acrobatic Category | | |
| | | MTOM | 1350 kg | |
| | | Max. Landing Mass | 1350 kg | |

| | | | | |
|---|---|---|---|---|
| 9. | Centre of Gravity Range: | Reference Datum (BE)<br>Levelling Reference | Wing LE at QE 2355/ME 1150<br>Canopy frame bottom edge | |
| | | <u>Utility Category</u><br>Most forward C.G. | 358 mm aft of datum at 1440 kg<br>325 mm aft of datum at 1037 kg | |
| | | Most rearward C.G. | 424 mm aft of datum at 1440 kg<br>404 mm aft of datum at 1037 kg | |
| | | <u>Acrobatic Category</u><br>Most forward C.G. | 347 mm aft of datum at 1350 kg<br>325 mm aft of datum at 1037 kg | |
| | | Most rearward C.G. | 392 mm aft of datum at 1350 kg<br>392 mm aft of datum at 1037 kg | |
| 10. | Minimum Crew: | | 1 Pilot | |
| 11. | Number of Seats: | | 2 | |
| 12. | Baggage: | Baggage compartment<br>max. baggage mass | <br>50 kg | |
| 13. | Operating Fluids: | Fuel capacity total<br>Useable fuel<br>Oil capacity total | 200 liters<br>190 liters<br>11.4 liters | (52.8 U.S. gal)<br>(50.2 U.S. gal)<br>(12 quarts) |
| 14. | Minimum Equipment: | Refer to equipment list in Flight Manual | | |
| 15. | Live Limited Parts: | Refer to Maintenance Manual G 115TA Chapter 5 | | |
| 16. | Control Surface Movements: | Refer to Maintenance Manual G 115TA Chapter 6 | | |

## K.IV <u>Operating and Service Instructions (Note 6)</u>

| | | |
|---|---|---|
| 1. | Flight Manual: | Flight Manual GROB G 115TA including approved supplements. English Issue 1, Rev. 0 or later |
| 2. | Placards: | Placards according to Flight Manual |
| 3. | Maintenance Manual/s: | Maintenance Manual GROB G 115TA, English Issue 2, Rev. 4 or later |
| 4. | Further Service Information / Instructions: | Illustrated Parts Catalogue GROB G 115TA<br>Service Bulletins and Service Letters |

## K.V Notes

1. This EASA TCDS, Section K is based on LBA TCDS no. 1078 for Model G 115TA, Issue 1 as of December 1996. Approved data referring to the original LBA TCDS number remain further valid.

2. The EASA Type Certification Standard includes that of FAA TCDS based on individual EU member State acceptance or certification of this standard prior to 28-September-2003. Other standards confirming to TC/ TCDS standards certificated by individual EU member States prior to 28-September-2003 are also acceptable.

3. This TCDS is valid for S/N´s 8501 up to 8514.

4. For certification for operation, the noise protection requirements effective at the day of application for certification for operation apply.

5. Paint schemes have to be approved by the TC holder or National Airworthiness Authority.

6. Distribution of Revisions to Operating and Service Instructions with ongoing revision of Service Bulletin no. MSB1078-147.

# ADMINISTRATIVE SECTION

## I Acronyms

AMDT. – Amendment
AFM – Airplane Flight Manual
C.G. – Centre of Gravity
CS – Certification Specifications
EASA – European Aviation Safety Agency
EU – European Union
FAA – Federal Aviation Administration
FAR – Federal Aviation Regulation
IFR – Instrument Flight Rules
LBA – Luftfahrt-Bundesamt
MTOM – Maximum Take Off Mass
TC – Type Certificate
TCDS – Type Certificate Data Sheet
VFR – Visual Flight Rules

## II Type Certificate Holder Record

# Grob Werke GmbH & Co. KG
Unternehmensbereich Burkhart Grob Flugzeugbau
8939 Mattsies
Am Flugplatz
Germany

# Burkhart Grob Luft- und Raumfahrt GmbH & Co. KG
8939 Mattsies
Am Flugplatz
Germany

# Dr. hc. Mult. Dipl.-Ing. Burkhart Grob e.K.
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Lettenbachstrasse 9
86874 Tussenhausen

# GROB Aerospace GmbH
Lettenbachstrasse 9
86874 Tussenhausen-Mattsies
Germany

# GROB Aircraft AG
Lettenbachstrasse 9
86874 Tussenhausen-Mattsies
Germany

# GROB Aircraft SE
Lettenbachstrasse 9
86874 Tussenhausen-Mattsies
Germany

# III Change Record

| Issue | Date | Changes | TC Issue No. & Date |
|---|---|---|---|
| Issue 1 | 28 Aug 2009 | Initial Issue EASA TCDS G115 (see notes 1) for all G 115 Models based on LBA TCDS´s (see notes 1 in sections A.V to K.V), initiated by changed company name and production of further model G 115E airplanes equipped i.a.w. change note no. OÄM1078-068. Compared with the baseline LBA TCDS´s, the information was changed in general as follows:<br><br>– Common scope and format of contents for all models,<br>– TC-holder and manufacturer for new airplanes or spare parts changed to GROB Aircraft AG in chapters I,<br>– General dimensions amended in chapters III,<br>– Kinds of Operation amended in chapters III,<br>– Reference to valid instructions for operation and service changed in chapters V, including reference to Service Bulletin used for distribution | Initial Issue, 28 Aug-2009 |
| Issue 2 | 20 Dec 2011 | Update reference to Aircraft Maintenance Manual associated with service life extension for models G 115, G 115A, G 115B, G 115C and G 115C2 approved with Change note MÄM1078-150 and implemented with Service Bulletin MSB1078-161. | Initial Issue, 28 Aug-2009 |
| Issue 3 | 03 May 2016 | Update of note referring to paint schemes. Further editorial changes. MÄM 1078-196<br>Note: Issue 3 has not been published by EASA. | Initial Issue, 28 Aug-2009 |
| Issue 4 | 06 Sep 2023 | TC Holder updated<br>Point 5 “TC-Holder” in Sections A.I to K.I. deleted<br>Section H: Introduction of OCN 565-268 and 269<br>Acronyms: List amended<br>Editorial corrections | 01 Sep 2017 |