TYPE-CERTIFICATE
DATA SHEET

No. P.027

for
V 506 series propellers

Type Certificate Holder
Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 - Letňany
Czech Republic

For Models:
V 506
TABLE OF CONTENTS

I. General ........................................................................................................................................... 4
  1. Type / Model ................................................................................................................................. 4
  2. Manufacturer ............................................................................................................................... 4
  3. Date of Application ..................................................................................................................... 4
  4. EASA Type Certification Date ..................................................................................................... 4

II. Certification Basis .......................................................................................................................... 4
  1. State of Design Authority Certification Basis .............................................................................. 4
  2. Reference Date for determining the applicable airworthiness requirements ................................ 4
  3. EASA Certification Basis ............................................................................................................ 4
    3.1. Airworthiness Standards ........................................................................................................ 4
    3.2. Special Conditions ................................................................................................................ 4
    3.3. Equivalent Safety Findings .................................................................................................. 5
    3.4. Deviations ............................................................................................................................ 5

III. Technical Characteristics .............................................................................................................. 5
  1. Type Design Definition ................................................................................................................ 5
  2. Description .................................................................................................................................. 5
  3. Equipment ................................................................................................................................... 5
  4. Dimensions .................................................................................................................................. 5
  5. Weight ......................................................................................................................................... 5
  6. Hub / Blade-Combinations ........................................................................................................... 5
  7. Control System ............................................................................................................................ 6
  8. Adaptation to Engine ................................................................................................................... 6
  9. Direction of Rotation ................................................................................................................... 6

IV. Operating Limitations .................................................................................................................. 6
  1. Maximum Take Off Power and Speed ......................................................................................... 6
  2. Maximum Continuous Power and Speed ..................................................................................... 6
  3. Propeller Pitch Angle .................................................................................................................. 6

V. Operating and Service Instructions .............................................................................................. 6

VI. Notes ............................................................................................................................................. 7

SECTION: ADMINISTRATIVE ............................................................................................................. 7

I. Acronyms and Abbreviations ......................................................................................................... 7

II. Type Certificate Holder Record .................................................................................................. 7

III. Change Record ............................................................................................................................. 7
I. General

1. Type / Model
V 506

2. Manufacturer
Avia Propeller Ltd.
Beranových 65/666
199 00 Praha 9 - Letňany
Czech Republic

3. Date of Application

| V 506 | 20.7.1961 |

4. EASA Type Certification Date

| V 506 | 30.9.1961 |

Type certification of the V 506 series propeller model has been covered previously by Czech Republic Type certificate No.6 661/61, Amendment 2 incl.

II. Certification Basis

1. State of Design Authority Certification Basis
Czech Republic

2. Reference Date for determining the applicable airworthiness requirements
20 July 1961

3. EASA Certification Basis

3.1. Airworthiness Standards
British Civil Airworthiness Requirements (BCAR), Section C, Issue 4, dated 1st March, 1957

Note:
Application was made to CAA - Czech Republic (former Czechoslovakia) before EASA was established. The applicable airworthiness standards were established in accordance with the rule in Czech Republic (former Czechoslovakia) at the time of application.

3.2. Special Conditions
None
3.3. Equivalent Safety Findings
None

3.4. Deviations
None

III. Technical Characteristics

1. Type Design Definition
The V 506 propeller model covers the following design configuration. Design configuration is defined by a main assembly drawing and an appropriate parts list.

V 506
Design Configuration “Constant Speed, Feather”
Drawing No. V506-0000 dated May 22, 2009 (*1)
Parts List No. R-V506-0000 dated May 22, 2009 (*1)

(*1) effective is the declared issue or a later approved revision.

2. Description
3-blade variable pitch propeller with a hydraulically operated blade pitch change mechanism providing the operation modes “Constant Speed”, and “Feather”. The hub is milled out of steel and blades are milled out of aluminum alloy.
Optionally the propeller may have installed a spinner and ice protection equipment.

3. Equipment
Spinner: according to Avia Propeller Service Bulletin No. 2
Governor: according to Avia Propeller Service Bulletin No. 3
Ice Protection: according to Avia Propeller Service Bulletin No. 4

4. Dimensions
Propeller diameter: max. 190 cm

5. Weight
Propeller-Design Configuration
“Constant Speed, Feather”: approx. 32.6 kg

6. Hub / Blade-Combinations

<table>
<thead>
<tr>
<th>Hub</th>
<th>Blade-Type</th>
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<tr>
<td>V 506-2101</td>
<td>V506-1</td>
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</table>
7. Control System
Propeller governor as listed in Avia Propeller Service Bulletin No. 3.

8. Adaptation to Engine
Flange, bolt spacing diameter 120 mm.

9. Direction of Rotation
Left-hand tractor (viewed in flight direction).

IV. Operating Limitations

1. Maximum Take Off Power and Speed
184 kW at 2750 min\(^{-1}\)

2. Maximum Continuous Power and Speed
184 kW at 2750 min\(^{-1}\)

3. Propeller Pitch Angle
From +16° to +84,5° measured at reference station

V. Operating and Service Instructions

<table>
<thead>
<tr>
<th>Operation and Installation Manual</th>
<th>P/N E-1640</th>
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</thead>
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<tr>
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<th>Overhaul Manual</th>
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<th>Overhaul Manual for Metal Blades</th>
<th>P/N EN-1370</th>
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<td></td>
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<td></td>
<td>Issue 2, March 17, 2009 (*)</td>
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</table>

| Service Bulletins                | as noted in the current List of Service Bulletins |

(*) effective is the declared issue or a later approved revision
VI. Notes

1. The suitability of the propeller for a given aircraft/engine-combination must be demonstrated within the scope of the type certification of the aircraft.

2. The overhaul intervals recommended by the manufacturer are listed in Avia Propeller Service Bulletin No. 1. The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable “Propeller Operation and Installation Manual” document, chapter “Airworthiness Limitations”.

3. EASA Type Certificate and Type Certificate Data Sheet No. P.027 replace CAA - Czech Republic Type Certificate and Type Certificate Data Sheet No. 661/61, Amendment 2 incl.

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations
n/a

II. Type Certificate Holder Record
n/a

III. Change Record

<table>
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<th>TCDS Issue</th>
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<th>Changes</th>
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<tr>
<td>Issue 01</td>
<td>02 June 2009</td>
<td>Initial Issue</td>
<td>Initial Issue, 02 June 2009</td>
</tr>
<tr>
<td>Issue 02</td>
<td>15 December 2022</td>
<td>Addition of a sentence to Note 2 in Chapter VI. Notes: The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable “Propeller Operation and Installation Manual” document, chapter Airworthiness Limitations. (Major Change approval 10080700)</td>
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