SAA

TYPE CERTIFICATE DATA SHEET № TB 0018

EC 120B

Type Certificate Holder: EUROCOPTER

Aéroport International Marseille Provence, 13725 Marignane Cedex, France

Models: EC 120B

Issue 1, 06 October 2009

This Data Sheet which is integral part of Type Certificate № TB 0018 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the airworthiness requirements stated in Certification basis mentioned in this Data Sheet.

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MODEL: EC 120 B

JAA Type certificate issuance date: 19 June 1997

JAA application date: 6 May 1994

SAA Application date: 24 June 2008

SAA Type certificate date: 06 Oct 2009

Original Type Design Standard: Report DMD C 000A0761 E01 Issue B

Dimensions

<table>
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<tr>
<th>Component</th>
<th>Specification</th>
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<tr>
<td>Fuselage Length</td>
<td>9.60 m</td>
</tr>
<tr>
<td>Fuselage Width</td>
<td>2.07 m</td>
</tr>
<tr>
<td>Fuselage Height</td>
<td>3.40 m</td>
</tr>
<tr>
<td>Main rotor blades</td>
<td>3 blades - diameter: 10 m</td>
</tr>
<tr>
<td>Tail rotor blades</td>
<td>8 blades - diameter: 0.75 m</td>
</tr>
</tbody>
</table>

Engine

1 turbine engine ARRIUS 2F manufactured by Turbomeca (see engine Data Sheet n°M22)
SAA Type Certificate No Td 0040

Fuel

Refer to RFM for approved fuels and additives
Fuel capacity - total: 410.5 litres
- usable: 406 litres

Oil

Refer to RFM for approved engine and gearbox oils

Installed engine limits

<table>
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<tr>
<th>Ratings</th>
<th>Gas generator Speed (NG) (1)</th>
<th>Exhaust gas Temperature (T4) (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max transient (5 s)</td>
<td>103.6%</td>
<td>900°C</td>
</tr>
<tr>
<td>Max take-off (5 min)</td>
<td>101%</td>
<td>870°C</td>
</tr>
<tr>
<td>Max Continuous</td>
<td>99.5%</td>
<td>830°C</td>
</tr>
</tbody>
</table>

Note: (1) 100%: 54 117 rpm
       (2) Max Continuous during starting: 800°C

Transmission torque limits

Max transient: 110%
Max Take off: 103%
Max Continuous: 97%

Note: 100%: 300 Kw at 406 rpm

Airspeed limits

VNE power on: 150 kt at sea level less 3 kt/1000 ft
VNE power off: 120 kt at sea level less 3 kt/1000 ft
Refer to RFM for approved airspeed with doors
Rotor speed limits

Normal range power on: 390 to 415 rpm
Maximum power off: 447 rpm (aural warning: 420 rpm)
Minimum power off: 340 rpm (aural warning: 370 rpm)

C.G. range

Longitudinal:

Lateral:

Maximum take-off weight
1715 kg (3777 lb)

Minimum crew
1 pilot

Maximum passenger
4

Passenger emergency exit
one door on each side of the fuselage

Maximum Baggage/Cargo loads
Baggage floor: 300 kg/m²
Cockpit floor: 300 kg/m²

Maximum operating pressure altitude: 20,000 ft

Maximum take off and landing pressure altitude: 2000 ft or 20,000 ft (see Required equipment note [a])

Operational limits:
- Day VFR
- Night VFR (see Required equipment note [b])
- Flights under icing conditions, freezing rain and aerobatic manoeuvres are prohibited

C.G. reference:
- Longitudinal: 4m forward of main rotor head
- Lateral: symmetrical plane of the aircraft

Leveling means:
- Mechanical floor

JAA Design Organisation Approval of Eurocopter:

Certification basis:
- (defined in CRI A1)
- JAR 27 First Issue dated September 06, 1993
- Special Condition: HIRF
- Equivalent safety findings on:
  - Main gear box oil filter bypass
  - Powerplant instrument marking
- AR-27 «Airworthiness requirements for normal category rotorcraft»

Production basis:

Serial number:
- 1001 and following, except S/N 1004

Required equipment:
- As per compliance with JAR 27 requirements and included in the original Type Design Standard

Note:
- [a] Max take-off and landing Hp= 20,000 ft permitted when change A00075 and SB 32.001 have been embodied to the aircraft (use Flight Manual issue 2 + ITR 3C or FM subsequent issues)
- [b] Night VFR operation permitted when SB 34.001 has been embodied to the aircraft (use Flight Manual issue 2 + ITR 3E or FM subsequent issues)

Required documents:
- Flight Manual (in English)
- EC 120B Flight Manual (original issue approved by DGAC-F 19 June 1997) at issue 2 (approved by DGAC-F, 19 March 1998) or subsequent issues
Airworthiness Limitations (in English)

- with effect from 19 June 1997,
EC 120B Aircraft Maintenance Manual - chapter 04
(original issue approved by DGAC-F, 19 June 1997) at
issue 1 (approved by DGAC-F, 30 March 1998)
- with effect from 12 March 1999,
EC 120B Master Servicing Manual - chapter 04, original
issue approved by DGAC-F, 12 March 1999 or
subsequent issues

Other documents

MMEL: there is a Master Minimum Equipment
List approved by DGAC-F (original issue dated 02.06 or
subsequent issues)

Repair Manual: there is no approved Repair Manual

-------------END-------------

Head of Aeronautical Products
Type Certification Department

[Signature]

S. Haidenko