State aviation administration of Ukraine
(SAAU)

TYPE CERTIFICATE DATA SHEET TL0069

Airplane AIRBUS A330

Model: A330-223.

Issue 1, 16 December 2015

This Data Sheet which is integral part of Type Certificate TL0069 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was issued meet(s) the airworthiness requirements and environmental protection requirements which are determined by Certification Basis indicated in this Data Sheet.

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Section I. General

I.1. Airworthiness Category: Transport category airplane (Large airplane under CS/JAR-25)

I.2. Type Certificate Holder: AIRBUS
1 Rond-point Maurice Bellonte
31707 BLAGNAC cedex France

I.3. Aircraft Description:
Two turbo-fan, medium to long range, twin-aisle, transport category airplane (large airplane under CS/JAR-25).

I.4. Initial Certification Authority: JAA/EASA

I.5. Initial Airworthiness Authority Certification Basis: See TCDS EASA.A.004 (Issue 34)

I.6. SAAU Certification Basis:
- Special Conditions: Special Conditions indicated in the TCDS EASA.A.004 (Issue 34) are acceptable.
- Equivalent Levels of Safety: Equivalent Levels of Safety indicated in the TCDS EASA.A.004 (Issue 34) are acceptable.
- Environmental protection requirements: ICAO Annex 16 “Environmental protection”:
  - Vol. I “Aircraft noise”, issue 3, Part II “Aircraft noise certification”, Chapter 4;

I.7. ETOPS:
The Type Design, system reliability and performance of A330 model(s) were found capable for Extended Range Operations when configured, maintained and operated in accordance with the current revision of the ETOPS Configuration, Maintenance and Procedures (CMP) document, LR2/EASA: AMC 20-6/CMP.
Section II. Model A330-223

II.1. General

II.1.1. Initial Type Certification Date: 13 July 1998

II.1.2. SAAU Validation Application Date: 24 June 2013

II.1.3. SAAU Validation Date: 24 November 2015

II.2. Technical Characteristics and Operational Limitations

II.2.1. Type Design Definition:

<table>
<thead>
<tr>
<th>Model</th>
<th>Type Design Definition reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>A330-223</td>
<td>00G000A0223/C00 1) EIALD_G01D15027643 2)</td>
</tr>
</tbody>
</table>

Note: 

1) Original Type Definition reference;

2) Ukrainian Type Definition reference which includes mandatory Modifications for airplanes operated under Ukrainian registration (See Note II.4.1.).

II.2.2. Equipment:

Cabin furnishings, equipment and arrangement shall conform to the following specification:

- 00F252K0005/C01 - for cabin seats;
- 00F252K0006/C01 - for galley;
- 00F252K0020/C01 - for cabin attendant seats.

II.2.3. Engines:

II.2.3.1. Engine type and quantity:

Two Pratt & Whitney 4168A or
Two Pratt & Whitney 4168A-1D or
Two Pratt & Whitney 4170
II.2.3.2. Operating Limitation

<table>
<thead>
<tr>
<th>Limitation</th>
<th>PW 4168A or PW 4168A-1D</th>
<th>PW 4170</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Static thrust at Sea Level, kg (lbs):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Take-off (5 min) (^1), (Flat rated (+30^\circ\mathrm{C}):)</td>
<td>31,116 (68,600)</td>
<td>31,751 (70,000)</td>
</tr>
<tr>
<td>- Maximum continuous (Flat rated (+25^\circ\mathrm{C}):)</td>
<td>26,923 (59,357)</td>
<td>26,923 (59,357)</td>
</tr>
<tr>
<td><strong>Maximum engine speed, rpm (%)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- N1:</td>
<td>3,600</td>
<td>3,680</td>
</tr>
<tr>
<td>- N2:</td>
<td>10,450</td>
<td>10,450</td>
</tr>
<tr>
<td><strong>Maximum gas temperature, (,^\circ\mathrm{C})</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Take-off (5 min) (^1):</td>
<td>620</td>
<td>620</td>
</tr>
<tr>
<td>- Maximum continuous:</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>- Starting (^2):</td>
<td>620</td>
<td>620</td>
</tr>
<tr>
<td><strong>Maximum oil temperature (supply pump inlet, (,^\circ\mathrm{C}):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Take-off (stabilized):</td>
<td>163</td>
<td>163</td>
</tr>
<tr>
<td>- Transient (15 min max):</td>
<td>177</td>
<td>177</td>
</tr>
<tr>
<td><strong>Min. Press, kg/sm(^2) (PSI):</strong></td>
<td>4.92 (70)</td>
<td>4.92 (70)</td>
</tr>
<tr>
<td><strong>Approved oils:</strong></td>
<td>See PW SB 238, latest issue</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

\(^1\) 10 minutes at take-off thrust allowed in case of engine failure (at take off and during go around).

\(^2\) 4 consecutive cycles of 2 minute each.
II.2.3.3. Others limitations indicated in SAAU Engine TCDS:

TD 0062 for engines PW 4168A, PW 4168A-1D and PW 4170.

II.2.4. Maximum Certified Masses (T):

<table>
<thead>
<tr>
<th>Variant</th>
<th>Max. Take-off Weight</th>
<th>Max. Landing Weight</th>
<th>Max. Zero Fuel Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>020 Basic</td>
<td>230</td>
<td>180</td>
<td>168</td>
</tr>
<tr>
<td>021 (MOD 46892)</td>
<td>230</td>
<td>182</td>
<td>170</td>
</tr>
<tr>
<td>022 (MOD 47784)</td>
<td>233</td>
<td>182</td>
<td>170</td>
</tr>
<tr>
<td>023 (MOD 47888)</td>
<td>233</td>
<td>180</td>
<td>168</td>
</tr>
<tr>
<td>050 (MOD 51802)</td>
<td>230</td>
<td>180</td>
<td>168</td>
</tr>
<tr>
<td>052 (MOD 51804)</td>
<td>233</td>
<td>182</td>
<td>170</td>
</tr>
<tr>
<td>054 (MOD 54106)</td>
<td>230</td>
<td>182</td>
<td>170</td>
</tr>
<tr>
<td>055 (MOD 54107)</td>
<td>192</td>
<td>182</td>
<td>170</td>
</tr>
<tr>
<td>056 (MOD 55813)</td>
<td>233</td>
<td>180</td>
<td>168</td>
</tr>
<tr>
<td>057 (MOD 58859) (for Production)</td>
<td></td>
<td>236</td>
<td>182</td>
</tr>
<tr>
<td>(MOD 201436) (for Retrofit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>058 (MOD 58860) (for Production)</td>
<td>238</td>
<td>182</td>
<td>168</td>
</tr>
<tr>
<td>(MOD 201437) (for Retrofit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>059 (MOD 57439)</td>
<td>202</td>
<td>182</td>
<td>170</td>
</tr>
<tr>
<td>060 (MOD 57440)</td>
<td>220</td>
<td>182</td>
<td>170</td>
</tr>
<tr>
<td>061 (MOD 200561)</td>
<td>230</td>
<td>182</td>
<td>168</td>
</tr>
<tr>
<td>062 (MOD 201701)</td>
<td>238</td>
<td>182</td>
<td>168 or 170\textsuperscript{1)}</td>
</tr>
</tbody>
</table>

Note: \textsuperscript{1)} - depending on TOW

II.2.5. Centre of gravity position:

II.2.5.1. Centre of gravity limits: see EASA approved Airplane Flight Manual.

II.2.5.2. The aircraft reference zero datum point is located 6.3825 m forward of the nose Section 7m under the fuselage centerline (datum line).

II.2.5.3. 0% MAC is located 1359.59 in. (34.532m) from the datum line.

II.2.6. Cargo Compartment:

<table>
<thead>
<tr>
<th>Cargo compartment</th>
<th>Max. Load (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward</td>
<td>18,869</td>
</tr>
<tr>
<td>Aft</td>
<td>15,241</td>
</tr>
<tr>
<td>Rear (bulk)</td>
<td>3,468</td>
</tr>
</tbody>
</table>
For the positions and the loading conditions authorized in each position (references of containers, pallets and associated masses) see Weight and Balance Manual.

II.2.7. Maximum Operating Altitude:
See EASA approved Airplane Flight Manual.


II.2.9. Maximum Seating Capacity:
375 basic: 3 Type A and 1 Type 1 door installed;
406 option: 4 Type A door installed - Mod 40161.

*Note: See interior layout drawing for the maximum passenger capacities approved for each airplane when delivered.*

II.2.10. Fuel quantity (0.8 kg/liter)

<table>
<thead>
<tr>
<th>TANK</th>
<th>3-TANK AIRPLANE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Usable fuel liters (kg)</td>
</tr>
<tr>
<td>WING</td>
<td>91300 (73040)</td>
</tr>
<tr>
<td>CENTER</td>
<td>41 560 (33 248)</td>
</tr>
<tr>
<td>TRIM TANK</td>
<td>6 230 (4 984)</td>
</tr>
<tr>
<td>TOTAL</td>
<td>139 090 (111 272)</td>
</tr>
</tbody>
</table>

II.2.11. Fuels:
See EASA approved Airplane Flight Manual\(^1\) and Airbus Consumable Material List (CML) Part 1/S01-Fuels, latest issue, for approved fuel specification.

*Note: \(^1\) - see paragraph II.3.1.*

II.2.12. Auxiliary Power Unit.

GARRETT GTCP 331-350C.
(Specification 31-7677A).
Approved oils – refer to applicable approved Manuals.


II.2.14. Other Limitations: refer to applicable operating and maintenance instructions (see II.3).
II.3. Operating and Maintenance Documentation:

II.3.1. Flight Operating Instructions:

- Weight and Balance Manual D-WBM 006080A0007/C2S (A330 WBM);

II.3.2. Airworthiness Limitation and Maintenance Documentation:

1. A330 Airworthiness Limitation Section:
   - Limitations applicable to Safe Life Airworthiness Limitation Items are provided in the A330 Airworthiness Limitations Section (ALS) sub-parts 1-2 and 1-3 approved by EASA;
   - Limitations applicable to Damage Tolerant Airworthiness Limitation Items are provided in the A330 Airworthiness Limitations Section (ALS) Part 2 approved by EASA;
   - Certification Maintenance Requirements are provided in the A330 Airworthiness Limitations Section (ALS) Part 3 approved by EASA;
   - Limitations applicable to Ageing System Maintenance are provided in the A330 Airworthiness Limitation Section (ALS) Part 4 approved by EASA;
   - Fuel Airworthiness Limitations are provided in the A330 Airworthiness Limitations Section (ALS) Part 5 approved by EASA;

2. EASA Approved Airplane Maintenance Manual (A330 AMM)
II.4 Notes

II.4.1. For airplanes under Ukrainian registration, according to EIALD_G01D15027643, following modifications are mandatory:

- MOD 200332** and subsequent, the SSCVR will be supplied with 28VDC from the 403PP bus;
- MOD 43537** and subsequent, to conduct operation in RVSM airspace, for airplanes with MSN up to 397;
- ACAS II 7.1, for airplanes with MSN up to 924
  - MOD 201518 and subsequent (SB 34-3282*); or
  - MOD 57609 and subsequent (SB 34-3247* or 34-3281*); or
  - MOD 201770 and subsequent (SB 34-3268*); or
  - MOD 202589 and subsequent (SB 34-3295* or 34-3296*); or
  - MOD 202097 and subsequent (SB 34-3271*);

- Transponder Mode S" with "EHS" function, for airplanes with MSN up to 886
  - MOD 50301 and subsequent (SB 34-3135*); or
  - MOD 50300 and subsequent (SB 34-3140* or 34-3212*); or
  - MOD 50288 and subsequent (SB 34-3134*); or
  - MOD 54227 and subsequent (SB 34-3192* or 34-3197*);
- MOD 49193** and subsequent, a means to monitor and warn of preset flight level deviations, for airplanes with MSN up to 397;
- EGPWS system, for airplanes with MSN up to 385
  - MOD 46332 and subsequent (SB 34-3077* or 34-3106*); or
  - MOD 52992 and subsequent (SB 34-3174* or 34-3226* or 34-3295*); or
  - MOD 58449 and subsequent (SB 34-3271*); or
  - MOD 46324 and subsequent (SB 34-3077* or 34-3106*).
- Portable radio beacon (ELT(S)):
  - For new A/C specific request has to be raised at time of Cabin definition;
  - For in service A/C by operator’s request;
- Portable emergency VHF radio transceiver. The location will be provided under operator’s request. The installation of the portable VHF is under the responsibility of the operator.
- MOD 41811** and MOD 42002** or equivalent for water and waste system in case a third tank is installed;
- Cargo hold heated drainage system, as per MOD 43719** and MOD 568351** or equivalent;
- Installation of oxygen cylinder and full face mask in the cockpit MOD 42516** or equivalent.

II.4.2. A330-223 model is complied with ICAO Annex 16, Volume I, Chapter 4 requirements. Details are defined within TCDSN EASA.A.004.

Certification Noise Level are provided in «External Noise» Part, «Appendices and Supplements (APP) » Section of the approved Airplane Flight Manual.

Notes: 1) – A330-200 only;
* – or equivalent;
** – in-service aircraft should be modified by appropriate Airbus SB or equivalent.

Deputy director-
Head of Aeronautical Product
Type Certification Department

S. Haidenko