TYPE-CERTIFICATE

DATA SHEET

No. EASA.A.004

for

AIRBUS A330

Type Certificate Holder

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac

France

For Models:

A330-201	A330-223F	A330-301	A330-743L	A330-841	A330-941
A330-202	A330-243F	A330-302			
A330-203		A330-303			
A330-223		A330-321			
A330-243		A330-322			
		A330-323			
		A330-341			
		A330-342			
		A330-343			

Intentionally left blank

CORRESPONDANCE TABLE MODELS / ENGINE MANUFACTURERS

	A330-200 series	A330-300 series	A330-700L series	A330-800 series	A330-900 series
GE Engines	A330-201 A330-202 A330-203	A330-301 A330-302 A330-303	-	-	-
PW Engines	A330-223 A330-223F	A330-321 A330-322 A330-323	-	-	-
RR Engines	A330-243 A330-243F	A330-341 A330-342 A330-343	A330-743L	A330-841	A330-941

Intentionally left blank

TABLE OF CONTENTS

SECTION 1: A330-200 SERIES

I. General

1. Type / Model

1.1 Type

A330

1.2 Model

Passenger Models:

A330-201, A330-202, A330-203
A330-223
A330-243

Freighter Models:

A330-223F
A330-243F

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

DGAC-F

4.2 Application Date

Passenger Models:

A330-201:	15 may 2001
A330-202:	23 January 1996
A330-203:	15 November 1999
A330-223:	-
A330-243:	-

4.3. State of Design Authority Type Certificate Date

Passenger Models:

A330-201:	31 October 2002
A330-202:	31 March 1998
A330-203:	20 November 2001
A330-223:	13 July 1998
A330-243:	11 January 1999

DGAC-F TC 184 remains a valid reference for models certified before 28 September 2003

5. EASA Type Certification

5.1 State of Design Authority

EASA

5.2 Application Date

Freighter Models:

A330-223F: 30 August 2006
A330-243F: 30 August 2006

5.3. State of Design Authority Type Certificate Date

Freighter Models:

A330-223F: 9 April 2010
A330-243F: 9 April 2010

SECTION 1: A330-200 SERIES (Cont'd)

II. Certification Basis

1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 23 January 1996

2. Airworthiness Requirements

Original Airworthiness Requirements (at time of TC):

- Certification Requirements

JAR 25 Change 13 effective on October 5, 1989 except as follows:

- Paragraph 25.561 is applied at change 12 for wing tanks outside the fuselage contour;
- For showing compliance with JAR 25.785(a)(b)(c), the front row seats located behind a bulkhead are not tested according to JAR 25.562(c)(5)(6). Instead, a minimum 35 inches distance between the seats and the bulkhead is considered as an acceptable alternative.

With the following JAR 25 paragraphs applicable at change 14:
25.21, 25.29, 25.101, 25.111, 25.125, 25.145, 25.147, 25.149, 25.175, 25.177, 25.181, 25.205, 25.251, 25.253, 25.305, 25.307, 25.321, 25.331, 25.333, 25.335, 25.341, 25.343, 25.345, 25.349, 25.351, 25.361, 25.371, 25.373, 25.391, 25.395, 25.397, 25.415, 25.427, 25.459, 25.571, 25.603 (vertical stabilizer only), 25.613 (vertical stabilizer only), 25.615 (vertical stabilizer only), 25.679, 25.723, 25.729, 25.731, 25.733, 25.735, 25.772, 25.777, 25.779, 25.783, 25.851, 25.863, 25.867, 25X899 (vertical stabilizer only), 25.963(g) (fuel centre tank only), 25.979, 25.1303, 25.1381, 25.1415, 25.1419, 25.1533, 25.1543,25.1551

- All Weather Operations

JAR AWO change 1 plus:

- Orange Paper AWO 91/1 NPA JAR AWO 3
- NPA JAR AWO 8 (IM S-148 - Longitudinal touchdown performance + MABH deletion)

Additional Airworthiness Requirements for Freighter Models:

For Freighter Models, the following airworthiness requirements apply in addition to (superseding) the above listed airworthiness requirements:

- CS 25 Amendment 1:

25.1, 25.20, 25.23, 25.27 to 25.31, 25.117, 25.123, 25.235, 25.255, 25.361, 25.363, 25.367, 25.397, 25.405 to 25.409, 25.457, 25.459, 25.471, 25.477, 25.487, 25.489, 25.495, 25.497, 25.503 to 25.509, 25.563, 25.651 to 25.693, 25.699 , 25.721, 25.771, 25.779, 25.793, 25.817, 25.841, 25.853, 25.855, 25.859, 25.865, 25.867, 25.871, 25.875, 25.937, 25.941, 25.943, 25.953, 25.955 to 25.959, 25.965, 25.969, 25.971, 25.977, 25.979, 25.991, 25.995, 25.999, 25.1011, 25.1017, 25.1021 to 25.1027, 25.1043, 25.1045, 25.1103, 25.1123, 25.1127, 25.1143, 25.1149, 25.1153, 25.1161, 25.1163, 25.1182, 25.1183, 25.1187, 25.1191 to 25.1207, 25.1315, 25.1326, 25.1335, 25.1337, 25.1381 to 25.1403, 25.1419, 25.1438, 25.1439, 25.1455, 25.1459, 25.1461 to 25.1511, 25.1515, 25.1525, 25.1531, 25.1543, 25.1551 to 25.1555, 25.1563

Plus for main deck cargo door:
25.301, 25.303, 25.305, 25.307, 25.561, 25.571, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.621, 25.623, 25.625, 25.629, 25.843, 25.899, 25.1316, 25.1529, 25.1541, 25.1557

Plus for cargo floor:
25.303, 25.305, 25.307, 25.365, 25.561, 25.571, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.621, 25.625, 25.843

Plus for cargo barrier wall:
25.303, 25.305, 25.307, 25.365, 25.561, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.621, 25.625, 25.853, 25.857, 25.1541, 25.1557

Plus for NLG attachment point / NLG bay:
25.303, 25.305, 25.307, 25.571, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.621, 25.625, 25.631, 25.729, 25.843

Plus for courier area:
25.365(a)(b)(c)(d), 25.561, 25.562, 25.601, 25.603, 25.605, 25.611, 25.785,25.787, 25.789, 25.791, 25.803, 25.807, 25.809, 25.810, 25.811, 25.812, 25.813, 25.851, 25.853, 25.869, 25.899, 25.1353, 25.1360, 25.1365, 25.1411, 25.1415, 25.1421, 25.1431, 25.1441, 25.1443, 25.1445, 25.1447, 25.1449, 25.1453, 25.1529, 25.1541, 25.1557, 25.1561

Plus for Main Deck Cargo Compartment class E:
25.601, 25.603, 25.855, 25.857, 25.858, 25.863, 25.869, 25.1316, 25.1529, 25.1541, 25.1557

- CS 25 Amendment 4:

  For main deck cargo door:
  25.783

<u>Additional Airworthiness Requirements (All models, added Post TC):</u>
The following requirements are additionally applicable when an A/C configuration include the subject optional design change(s):

- Certification Requirements

  The following requirements may be considered to certify the following optional designs:

  - CS 25.791 Original issue for symbolic no smoking signs in lavatories
  - CS 25.811 and CS 25.812 Amdt. 3 for multi lingual “EXIT” signs.
  - CS 25.851 (a) (c) Amdt 17 for Halon Free Hand Held Fire Extinguishers - Compliance with Commission regulation (EU) N° 744/2010 of 18 August 2010 amending regulation (EC) n° 1005/2009 of the European Parliament and of the Council on substances that deplete the ozone layer, with regard to the critical uses of halon).

- Airborne Communication, Navigation, Surveillance

  CS-ACNS Initial Issue

  - Subpart B, Section 2 – for optional modifications (Post TC) installing FANS aiming at answering to SES mandate as defined in (EU) N° 29/2009 and amended by (EU) N° 310/2015 of 26 Febuary 2015.

    Note: For compliance to CS-ACNS Subpart B, Section 2, a deviation to CS-ACNS.B.DLS.B1.075 is accepted by DEV ACNS-B-GEN-01 to not include DM89 MONITORING [unit name] [frequency] in the downlink message set installed.

- Subpart D – for optional modifications installing transponders aiming at answering to SES mandate as defined in (EU) No 1207/2011 and amended by (EU) No 1028/2014 of 26 September 2014.

3. Special Conditions

Original Special Conditions part of Certification Basis (at time of TC):

- JAA Numbering:
  - SC G-105 Resistance to fire
  - SC G-7 Function and reliability testing
  - SC A-2 Interaction of systems and structure
  - SC A-3 Design manoeuver requirements
  - SC A-4 Design dive speed VD
  - SC A-5 Limit pilot forces and torque
  - SC A-7 Stalling speeds for structural design
  - SC A-11 Aeroelastic stability requirements
  - SC E-2 Underfloor Crew rest compartment (Passenger Models only)
  - SC F-101 Stalling and scheduled operating speeds
  - SC F-2 Motion and effects of cockpit controls
  - SC F-3 Static longitudinal stability
  - SC F-4 Static directional and lateral stability
  - SC F-5 Flight envelope protections
  - SC F-6 Normal load factor limiting system
  - SC S-6 Lightning protection indirect effects
  - SC S-10 Effects of external radiations upon aircraft systems
  - SC S-13 Autothrust system
  - SC S-16 Control signal integrity
  - SC S-18 Electronic flight control
  - SC S-20 Emergency electrical power
  - SC S-23 Electrical wiring and miscellaneous electrical requirements
  - SC S-38 Towbarless towing
  - SC S-148 Longitudinal touchdown performance + MABH deletion
  - SC P-1 FADEC
  - SC P-2 Centre of gravity control system

Additional Special Conditions for Freighter Models (at time of TC):

For Freighter Models, the following Special Conditions apply in addition to the above listed Special Conditions:

- JAA Numbering:
  - SC E-124 Courier compartment
  - SC E-125 Class E cargo compartment fire protection of essential systems
  - SC E-127 Flammability standard for thermal / acoustic insulation materials
  - SC S-10.2 Effects of external radiations upon aircraft systems

Additional Special Conditions part of the Certification Basis (All models, added Post TC):
The following Special Conditions are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  SC E-28 Partial Bulk Crew Rest Compartment with attached to galley
  (applicable from January 2009)
  SC E-128 Improved flammability standards for thermal/acoustic insulation
  (applicable from February 2009)
  SC E-130 Application of heat release and smoke density requirements to seat materials
  (applicable from February 2010)
  SC P-27 Flammability Reduction System
  (applicable from June 2010)
  SC P-32 Fuel Tank Safety
  (applicable from November 2013)
  SC S-10.2 Effects of external radiations upon aircraft systems
  (applicable from February 2000)
- EASA Numbering:
  SC B-09 Soft go around
  (applicable from February 2017)
  SC F-126 Flight Recorders including Data Link Recording
  (applicable from June 2013)
  SC F-131 Flight Instrument External Probes – Qualification in Icing Conditions
  (applicable from April 2016)
  SC F-134 Head Up Display Installation
  (applicable from May 2017)
  SC F-137 Security Protection of Aircraft Systems and Networks
  (applicable from May 2018)
  SC F-GEN-01: Installation of non-rechargeable lithium battery
  (applicable from April 2019)
  SC H-01 Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS
  (applicable from May 2010)

Additional Special Conditions part of the Certification Basis (Freighter models, added Post TC):
The following Special Conditions are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  SC E-126 Access to Class E Cargo Compartments in Flight
  (applicable from April 2009)

Additional Special Conditions part of the Certification Basis (Passenger models, added Post TC):
The following Special Conditions are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  - SC E-5.1 Lower Deck Lavatory
    (applicable from August 2000)
  - SC E-8.1 Lower Deck Stowage Area
    (applicable from August 2000)
  - SC E-11 Bulk crew rest compartment
    (applicable from January 2002)
  - SC E-19 F/C sliding screens
    (applicable from September 2003)
  - SC E-1014 HIC compliance for front row seating (inflatable restraints)
    (applicable from July 2007)
  - SC E-1023 Side facing seats with with inflatable restraints
    (applicable from April 2007)
- EASA Numbering:
  - SC D-04 Crew Rest Compartment
    (applicable from February 2018)
  - SC D-06 Installation of Three Point Restraint & Pretensioner System
    (applicable from August 2017)
  - SC D-07 Installation of Oblique Seats
    (applicable from August 2017)
  - SC D-08 Cabin Attendant Seat mounted on lavatory Door Blade
    (applicable from July 2018)
  - SC D-100 Installation of mini suite type seating
    (applicable from April 2018)
  - SC D-102 Incorporation of Inertia Locking Device in Dynamic Seats
    (applicable from January 2019)

4. Exemptions

None

5. Deviations

Deviation to Additional Airworthiness Requirements (added Post TC):

- Airborne Communication, Navigation, Surveillance
  - ACNS-B-GEN-01 Deviation to CS-ACNS Initial Issue Subpart B, Section 2
    (See Note in §II-2)

6. Equivalent Safety Findings

Original Equivalent Safety Findings part of Certification Basis (All models, at time of TC):

- JAA Numbering:
  ESF S-45 Oil temperature indication
  ESF P-9 A330 / RR turbine overheat detection
  The following Special Conditions provide an equivalent safety level to JAR 25 accelerate-stop and brakes qualification requirements (NPA 25 B, D, G 244)
  - SC F-8.1 Accelerate stop distances
  - SC S-21 Brakes wear limits

Additional Equivalent Safety Findings part of the Certification Basis (All models, added post TC):
The following Equivalent Safety Findings are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  ESF E-21 Emergency exit marking reflectance
  (applicable from December 2004)
  ESF E-29 Fuselage burn through – aft pressure bulkhead
  (applicable from March 2009)
  ESF E-30 Fuselage burn through – belly fairing
  (applicable from April 2009)
  ESF E-31 Fuselage burn through – bilge area
  (applicable from April 2009)
  ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials
  (applicable from August 2005)
  ESF F-128 Minimum Mass Flow of Supplemental Oxygen
  (applicable from November 2014).
  ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System
  (applicable from November 2014).
- EASA Numbering:
  ESF B-100 Vibration / buffeting compliance criteria for large external antenna installation
  (applicable from April 2018).
  ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking
  (applicable from February 2018).

Additional Equivalent Safety Findings part of the Certification Basis (Passenger models, added post TC):
The following Equivalent Safety Findings are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  ESF E-15 Reinforced security cockpit door
  (applicable from July 2002)
  ESF E-17 Trolley Lift
  (applicable from November 2003)

ESF E-18 Lower Deck galley compartment
(applicable from November 2003)
ESF E-27 Forward facing seats over 18 degrees to A/C centreline
(applicable from June 2009)
ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis (applicable from November 2013)

For Multi-Role Transport and Tanker (MRTT) aircraft only:

- JAA Numbering:
  ESF F-120 Flight Control Law Designed for Support of Military Air to Air Refuelling (applicable from August 2008)

7. Environmental Protection

7.1 Noise

See TCDSN no. EASA.A.004

7.2 Fuel Venting

Passenger Models:

ICAO Annex 16, Volume II, amendment 1, Part II, chapter II

Freighter Models:

CS-34 Initial issue, ICAO Annex 16, Volume II, amendment 05, Part II, chapter II

8. Operational Suitability Data (OSD)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- EASA Approved Operational Suitability Data

9. Extended Range Operations (ETOPS)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
  - EASA Approved ETOPS Capability

SECTION 1: A330-200 SERIES (Cont'd)

III. Technical Characteristics and Operational Limitations

1. Type Design Definition

With General Electric (GE) engines
A330-201: 00G000A0201/C00
A330-202: 00G000A0202/C00
A330-203: 00G000A0203/C00

With Pratt & Whitney (PW) engines
A330-223: 00G000A0223/C00
A330-223F: 00G000A223F/C00

With Rolls Royce (RR) engines
A330-243: 00G000A0243/C00
A330-243F: 00G000A243F/C00

2. Description

Two turbo-fan, medium to long range, twin-aisle, large category aeroplane.

3. Equipment

Refer to Type Design Definition.

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.

4. Dimensions

- Length: 58,82m (193ft)
- Diameter: 05,64m (18ft 6in)
- Wing Span: 60,30m (197ft 10in)
- Height:
  - Passenger Models : 17,38 m (57ft)
  - Freighter Models : 16,88 m (55ft 5in)

5. Engine

5.1 Model

General Electric (GE) engines

A330-201: Two (2) General Electric CF6-80E1A2 turbofan engines
A330-202: Two (2) General Electric CF6-80E1A4 or CF6-80E1A4/B turbofan engines
A330-203: Two (2) General Electric CF6-80E1A3 turbofan engines

Pratt & Whitney (PW) engines

Passenger Models:

A330-223: Two (2) Pratt & Whitney 4170 turbofan engines
A330-223: Two (2) Pratt & Whitney 4168A turbofan engines
A330-223: Two (2) Pratt & Whitney 4168A-1D turbofan engines
A330-223 : One (1) Pratt & Whitney 4168A-1D turbofan engines
One (1) Pratt & Whitney 4168A turbofan engines

Freighter Models

A330-223F: Two (2) Pratt & Whitney 4170 turbofan engines
A330-223F: Two (2) Pratt & Whitney 4168A-1D turbofan engines
A330-223F: One (1) Pratt & Whitney 4168A-1D turbofan engines
One (1) Pratt & Whitney 4168A turbofan engines

Rolls Royce (RR) engines

A330-243: Two (2) Rolls Royce Trent 772B-60 turbofan engines
A330-243: Two (2) Rolls Royce Trent 772C-60 turbofan engines
A330-243F: Two (2) Rolls Royce Trent 772B-60 turbofan engines

5.2 Type Certificate

General Electric (GE) engines

FAA Engine TCDS: E41NE
EASA Engine TCDS: EASA.IM.E.007

Pratt & Whitney (PW) engines

FAA Engine TCDS: E36NE
EASA Engine TCDS: EASA.IM.E.043

Rolls Royce (RR) engines

UK CAA Engine TCDS: 1050
EASA Engine TCDS: EASA.E.042

5.3 Limitations

5.3.1 Installed Engine Limits

General Electric (GE) engines

A/C Model	A330-201	A330-202		A330-203
Engine Model	CF6-80E1A2	CF6-80E1A4	CF6-80E1A4/B (MOD 52776)	CF6-80E1A3
Static thrust at sea level:				
- take-off (5mn) *	64,530 lbs	66,870 lbs	68,530 lbs	68,530 lbs
- maximum continuous	60,400 lbs	60,400 lbs	60,400 lbs	60,400 lbs

* May be extended to 10 minutes in the event of a power unit having failed or been shut down: see notes in Engine TCDS.

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

Pratt & Whitney (PW) engines

A/C Model	A330-223			A330-223F		
Engine Model	PW4168A	PW4168A-1D	PW4170	PW4168A** (202393)	PW4168A-1D (58344)	PW4170
Static thrust at sea level:						
- take-off (5mn) *	68,600 lbs	68,600 lbs	70,000 lbs	68,600 lbs	68,600 lbs	70,000 lbs
- maximum continuous	59,357 lbs	59,357 lbs	59,357 lbs	59,357 lbs	59,357 lbs	59,357 lbs

* 10 minutes at take-off thrust allowed only in case of engine failure (at take-off or during go-around in accordance with DGAC "Fiche de caractéristiques moteur".

** Only one of the PW4168A engine should be installed on the freighter on A330-223F aircraft basically fitted with two PW4168A-1D.

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

Rolls Royce (RR) engines

A/C Model	A330-243		A330-243F
Engine Model	Trent 772B-60	Trent772C-60	Trent 772B-60
Static thrust at sea level:			
- take-off (5mn) *	71,100 lbs	71,100 lbs	71,100 lbs
- maximum continuous	63,650 lbs	63,650 lbs	63,650 lbs

* The take-off rating and the associated operating limitations may be used for up to 10 minutes in the event of an engine failure (see notes in Engine TCDS).

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

5.3.2 Transmission Torque Limits

N/A

6. Fluids (Fuel / Oil / Additives / Hydraulics)

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
GE: (GE Specification D50TF2)	JET A, JET A-1, JP5, JP8, N°3 Jet Fuel, JET B, JP 4, TS-1(GOST), RT(GOST)
PW: (PWA 522 Specification (PW SB N° 2016))	JET A, JET A-1, JP5, JP8, N°3 Jet Fuel, JET B, JP 4, TS-1(GOST), RT(GOST)
RR: (Operating Instruction in RR Manuel F-Trent A330)	JET A, JET A-1, JP5, JP8, N°3 Jet fuel, TS-1(GOST), RT (GOST)

The above mentioned fuels are also suitable for the APU.

Refer to Consumable Material List (CML) for details on approved fuel specifications.

6.2 Oil

Refer to the Consumable Material List (CML).

Refer to Engine and APU Manufacturers Operating Instructions.

6.3 Additives

Refer to the Consumable Material List (CML).

6.4 Hydraulics

Refer to the Consumable Material List (CML).

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

		2-TANK AEROPLANE		
		Usable fuel litres (kg)	Unusable fuel litres (kg)	
A/C Model	GE	-	All models	
	PW	A330-223F (with MOD 58623 and without MOD 200281)		
	RR	A330-243F (with MOD 58623 and without MOD 200281)		
			Basic	MOD 205749
WING TANK		91 300 (73 040)	348 (279)	190 (152)
TRIM TANK		6 230 (4 984)	6 (5)	6 (5)
TOTAL		97 530 (78 024)	354 (284)	196 (157)

		3-TANK AEROPLANE		
		Usable fuel litres (kg)	Unusable fuel litres (kg)	
A/C Model	GE	A330-201 A330-202 A330-203	All models	
	PW	A330-223 A330-223F (with MOD 58623+200281 or without MOD 58623)		
	RR	A330-243 A330-243F (with MOD 58623+200281 or without MOD 58623)		
			Basic	MOD 205749
WING TANK		91 300 (73 040)	348 (279)	190 (152)
CENTRE TANK		41 560 (33 248)	83 (67)	83 (67)
TRIM TANK		6 230 (4 984)	6 (5)	6 (5)
TOTAL		139 090 (111 272)	437 (350)	279 (223)

7.2 Oil

Refer to Weight & Balance Manual.

7.3 Coolant system capacity

N/A.

8. Air Speeds Limits

Refer to approved Aeroplane Flight Manual.

9. Rotor Speed Limits

N/A

10. Maximum Operating Altitude and Temperature

10.1 Altitude

Maximum Flight level: 41 450 ft (12 634m)

Maximum Airfield altitude: 12 500 ft (3 810m)

10.2 Temperature

Flight: Minimum: -78°C SAT

Ground: Range: -54°C to +55°C

11. Operating Limitations

Refer to approved Aeroplane Flight Manual for maximum demonstrated crosswind.

Wind Speed Limitations:

- Crosswind:	Takeoff:	A/C :	45kt (gust included)
		Engine:	Refer to AFM Limitation section
	Landing:	A/C :	45kt (gust included)
		Engine:	Refer to AFM Limitation section
- Tailwind:	Takeoff:	10kt	
	Landing:	10kt	

12. Maximum Weight

Passenger Models:

		EIS							
Variant (MOD)		**020** Basic	**021** (46892)	**022** (47784)	**023** (47888)	**024** (49819)	**025** (50864)	**026** (204732)	**027** (54519)
Models	GE	A330-201 A330-202 A330-203	- A330-202 -	- A330-202 A330-203	A330-201 A330-202 A330-203	A330-201 - -	-	- - A330-203	-
	PW	A330-223	A330-223	A330-223	A330-223	-	-	-	-
	RR	A330-243	A330-243	A330-243	A330-243	A330-243	A330-243	A330-243	A330-243
MTOW (T)		230	230	233	233	202	220	192	220
MLW (T)		180	182	182	180	180	182	180	180
MZFW (T)		168	170	170	168	168	170	168	168

		Enhanced							
Variant (MOD)		**050** (51802)	**051** (51803)	**052** (51804)	**053**		**054** (54106)	**055** (54107)	**056** (55813)
					(52109)	(204437)			
Models	GE	A330-201 A330-202 A330-203	- - A330-203	A330-201 A330-202 A330-203	- A330-202 -	- A330-202 A330-203	A330-201 A330-202 A330-203	A330-201 A330-202 A330-203	A330-201 A330-202 A330-203
	PW	A330-223	-	A330-223	-	-	A330-223	A330-223	A330-223
	RR	A330-243	-	A330-243	-	-	A330-243	A330-243	A330-243
MTOW (T)		230	192	233	210	210	230	192	233
MLW (T)		180	180	182	180	180	182	182	180
MZFW (T)		168	168	170	168	168	170	170	168

Variant (MOD)		**057** (58859) (201436)	**058** (58860) (201437)	**059** (57439)	**060** (57440)	**061** (200561)	**062** (201701)	**063** (204729)	**064** (204730)
Models	GE	A330-201 A330-202 A330-203	A330-201 A330-202 A330-203	A330-201 A330-202 A330-203	A330-201 A330-202 A330-203	A330-201 A330-202 A330-203	A330-201 A330-202 A330-203	-	-
	PW	A330-223	A330-223	A330-223	A330-223	A330-223	A330-223	A330-223	A330-223
	RR	A330-243	A330-243	A330-243	A330-243	A330-243	A330-243	-	-
MTOW (T)		236	238	202	220	230	238	192	217
MLW (T)		182	182	182	182	182	182	182	182
MZFW (T)		170	168	170	170	168	168-170*	168	168

(*) Linear variation between those weights

		242t			
Variant (MOD)		**080** (203901)	**081** (203902)	**082** (203904)	**083** (203903
Models	GE	A330-202 A330-203	A330-202 A330-203	A330-202 A330-203	A330-202 A330-203
	PW	A330-223	A330-223	A330-223	A330-223
	RR	A330-243	A330-243	A330-243	A330-243
MTOW (T)		238	242	242-238*	240
MLW (T)		182	182	182	182
MZFW (T)		170	166	166-170*	168

(*) Linear variation between those weights

Freighter Models:

		EIS		
Variant (MOD)		**000** Basic	**001**	**002**
Models	GE	-	-	-
	PW	A330-223F	A330-223F	A330-223F
	RR	A330-243F	A330-243F	A330-243F
MTOW (T)		233	227	233
MLW (T)		182	187	187
MZFW (T)		173	178	173-178*

(*) Linear variation between those weights

13. Centre of Gravity Range

Refer to approved Aeroplane Flight Manual.

14. Datum / Mean Aerodynamic Chord (MAC)

Datum: Station 0.0, located 6,382 meters forward of aeroplane nose.

MAC: 7,270m

15. Levelling Means

Three primary jacking points: Refer to approved Weight and Balance Manual.

16. Minimum Flight Crew

Two (2): Pilot and Co-pilot.

17. Passenger Emergency Exit

Passenger Models:

Two Passenger Emergency Exit configurations:

- Configuration A-A-I-A: Basic 3 Type A passenger doors and 1 Emergency Exit Type I
- Configuration A-A-A-A: Option 4 Type A passenger doors (MOD 40161)

Freighter Models:

The forward pair of Passenger Emergency Exit Type A remains active as per Type Design.

18. Maximum Passenger Seating Capacity and associated Minimum Number of Cabin Crew

Passenger Models:

The maximum number of passengers approved for emergency evacuation is:

- 375 Basic (in Configuration A-A-I-A);
- 406 Option (in Configuration A-A-A-A).

See interior layout drawing for the maximum passenger capacities approved for each aeroplane when delivered.

The table below provides the certified Maximum Passenger Seating Capacities (MPSC), the corresponding cabin configuration (exit arrangement and modifications) and the associated minimum numbers of cabin crew members used to demonstrate compliance with the certification requirement:

Maximum Passenger Seating Capacity (MPSC) & Cabin Configuration		Minimum Cabin crew
406	Configuration A-A-A-A (MOD 40161)	9
400	Configuration A-A-A-A (MOD 40161)	8
375	Configuration A-A-I-A (Basic)	8

A lower number of cabin crew may be approved by EASA for specific cabin layouts.

Freighter Models:

With the forward pair of Passenger Emergency Exit Type A fully active:

- The total occupancy of the aeroplane is limited to 16 persons.
- A maximum of 12 supernumeraries may occupy the courier area located aft of the flight deck compartment.
-

19. Maximum Baggage/ Cargo Loads

For the positions and the loading conditions authorized in each position (references of containers, pallets and associated weights), see Weight and Balance Manual.

Passenger Models:

Cargo compartment	Maximum load (kg)
Forward	18 869
Aft	15 241
Rear (bulk)	3 468

Freighter Models:

Cargo compartment	Maximum load (kg)
Forward	18 869
Aft	15 241
Rear (bulk)	3 468
Main Deck Cargo Compartment	65 000 (range mode)

20. Rotor Blade control movement

N/A

21. Auxiliary Power Unit (APU)

One GARRETT (Company name changed to Honeywell International Inc. in 1999):
- GTCP 331-350C (Specification 31-7677A)

22. Life-limited parts

Refer to Airworthiness Limitation Section

See SECTION: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

SECTION 1: A330-200 SERIES – Cont'd

IV. Operating and Service Instructions

In accordance with EASA Part 21 regulation, Airbus provide on-demand access to the following technical publications to any person required to comply with any of those instructions :

(Access via AirbusWorld portal)

1. Flight Manual (AFM)

   Ref. AFM 33000 (latest published revision)

2. Maintenance Manual

   Refer to Customized Maintenance Manuals published by Airbus (latest published revision)

3. Structural Repair Manual (SRM)

   Refer to Customized SRM published by Airbus (latest published revision)

4. Weight and Balance Manual (W&BM)

   Refer to Customized W&BM published by Airbus (latest published revision)

5. Illustrated Parts Catalogue (IPC)

   Refer to Customized IPC published by Airbus (latest published revision)

6. Service Bulletins (SBs)

   Refer to applicability section of Airbus Service Bulletins (latest published revision)

7. Required Equipment

   The equipment required by the applicable regulation shall be installed.

   Refer also to MMEL – See SECTION: DATA PERTINENT TO ALL MODELS.

SECTION 1: A330-200 SERIES – Cont'd

V. Notes

1. All Weather Capability

A/C Model	GE Engines	PW Engines	RR Engines
	A330-201 A330-202 A330-203	A330-223 A330-223F	A330-243 A330-243F
Type Design Capability	Cat 3 Precision approach and autoland	Cat 3 Precision approach and autoland	Cat 3 Precision approach and autoland

2. Conversions between Models

The following A/C Model conversions are approved:

- A330-203 can be converted into A330-202 by application of Airbus Service Bulletin A330-00-3034 covering modification 53335.
- A330-201 can be converted into A330-202 by application of Airbus Service Bulletin A330-00-3051 covering modification 55917.

The following A/C Model engine configuration changes are approved:

- It is feasible for A330-202 to be fitted with CF6-80E1A2 engines by application of Service Bulletin 72-3003 (Mod 46549) and to be reverted to CF6-80E1A4 engines installation by Service Bulletin 72-3005 (Mod 47332).).

3. Change of Weight Variants

N/A

4. Fuel tank Flammability Reduction System (FRS)

If fitted, the centre fuel tank of aircraft which have made their first flight after 1st of January 2012 must be equipped in production with a fuel tank Flammability Reduction System (Modification 58723). This system shall remain installed and operative and can only be dispatched inoperative in accordance with the provisions of the MMEL revision associated with Modification 58723.

SECTION 2: A330-300 SERIES

I. General

1. Type / Model

1.1 Type

A330

1.2 Model

A330-301, A330-302, A330-303
A330-321, A330-322, A330-323
A330-341, A330-342, A330-343

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS
2 Rond-Point Emile Dewoitine
31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

DGAC-F

4.2 Application Date

A330-301: 16 April 1986
A330-321: 10 April 1991
A330-322: 10 April 1991
A330-341: 31 Jan 1994
A330-342: 31 Jan 1994
A330-323: 18 May 1998
A330-343: 18 May 1998

4.3. State of Design Authority Type Certificate Date

A330-301: 21 October 1993
A330-321: 02 June 1994
A330-322: 02 June 1994
A330-341: 22 December 1994
A330-342: 22 December 1994
A330-323: 22 April 1999
A330-343: 13 September 1999

DGAC-F TC 184 remains a valid reference for models certified before 28 September 2003

SECTION 2: A330-300 SERIES (Cont'd)

5. EASA Type Certification

5.1 State of Design Authority

EASA

5.2 Application Date

A330-302: 17 July 2000
A330-303: 17 July 2000

5.3. State of Design Authority Type Certificate Date

A330-302: 17 May 2004
A330-303: 17 May 2004

II. Certification Basis

1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 15 June 1988

2. Airworthiness Requirements

Original Airworthiness Requirements (at time of TC):

- Certification Requirements

  JAR 25 Change 13 effective on October 5, 1989 except as follows:

  Deviation on limited areas for compliance against paragraphs 25.561 and 25.562 such as:

  - Compliance at change 12 for wing tank outside the fuselage contour
  - For showing compliance with JAR 25.785 (a)(b)(c), the front row seats located behind a bulkhead are not tested according to JAR 25.562(c)(5)(6). Instead, a minimum 35 inches distance between the seats and the bulkhead is considered an acceptable alternative

- All Weather Operations

  JAR AWO Change 1
  NPA JAR AWO-3 (Take-off in low visibility)

Additional Airworthiness Requirements (added Post TC):
The following requirements are additionally applicable when an A/C configuration include the subject optional design change(s):

- Certification Requirements

  For A330-302, A330-303, A330-323, A330-342, A330-343 Weight Variants 080s with Centre Tank activated (MOD 204025),the following requirements shall be considered at JAR 25 Change 14 for:

  - JAR 25.733 (c)(1)
  - JAR 25.963 (g) for fuel centre tank
  - JAR 25.979

  The following requirements may be considered to certify the following optional designs:

  - CS 25.791 Original issue for symbolic no smoking signs in lavatories
  - CS 25.811 and CS 25.812 Amdt. 3 for multi lingual “EXIT” signs.
  - CS 25.851 (a) (c) Amdt 17 for Halon Free Hand Held Fire Extinguishers - Compliance with Commission regulation (EU) N° 744/2010 of 18 August 2010 amending regulation (EC) n° 1005/2009 of the European Parliament and of the Council on substances that deplete the ozone layer, with regard to the critical uses of halon).

- Airborne Communication, Navigation, Surveillance

  CS-ACNS Initial Issue

  - Subpart B, Section 2 – for optional modifications (Post TC) installing FANS aiming at answering to SES mandate as defined in (EU) N° 29/2009 and amended by (EU) N° 310/2015 of 26 Febuary 2015.

    Note: For compliance to CS-ACNS Subpart B, Section 2, a deviation to CS-ACNS.B.DLS.B1.075 is accepted by CRI ACNS-B-GEN-01 to not include DM89 MONITORING [unit name] [frequency] in the downlink message set installed.

- Subpart D – for optional modifications installing transponders aiming at answering to SES mandate as defined in (EU) No 1207/2011 and amended by (EU) No 1028/2014 of 26 September 2014.

3. Special Conditions

Original Special Conditions part of Certification Basis (at time of TC):

- JAA Numbering:
  - SC G-5 Resistance to fire terminology (NPA 25D-181)
  - SC G-7 Function and reliability testing
  - SC A-1 Discrete gust requirements (NPA 25C-205)
  - SC A-2 Interaction of systems and structure (NPA 25C-199)
  - SC A-3 Design manoeuver requirements
  - SC A-4 Design dive speed
  - SC A-5 Limit pilot forces and torque
  - SC A-7 Stalling speeds for structural design
  - SC A-11 Aeroelastic stability requirements (NPA 25B, C, D-236)
  - SC F-1 Stalling and scheduled operating speeds
  - SC F-2 Motion and effects of cockpit controls
  - SC F-3 Static longitudinal stability
  - SC F-4 Static directional and lateral stability
  - SC F-5 Flight envelope protections
  - SC F-6 Normal load factor limiting system
  - SC S-3 Landing gear warning (NPA 25D-162)
  - SC S-6 Lightning protection indirect effects
  - SC S-10 Effects of external radiations upon aircraft systems
  - SC S-13 Autothrust system
  - SC S-16 Control signal integrity
  - SC S-18 Electronic flight controls
  - SC S-20 Emergency electrical power (NPA 25D, F-179)
  - SC S-23 Electrical wiring and miscellaneous electrical requirements (NPA 25D, F-191)
  - SC S-24 Doors (NPA 25D, F-251)
  - SC S-48 Minimum approach break-off height
  - SC P-1 FADEC
  - SC P-2 Centre of gravity control system

Additional Special Conditions part of the Certification Basis (added post TC):

The following Special Conditions are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  - SC E-2 Underfloor Crew rest compartment (applicable from February 1993)
  - SC E-5.1 Lower deck Lavatory (applicable from August 2000)
  - SC E-8.1 Lower deck stowage area (applicable from August 2000)

SC E-11 Bulk crew rest compartment
(applicable from January 2002)
SC E-19 F/C sliding screens
(applicable from September 2003)
SC E-28 Partial Bulk Crew Rest Compartment with attached to galley
(applicable from January 2009)
SC E-128 Improved flammability standards for thermal/acoustic insulation
(Applicable from February 2009)
SC E-130 Application of heat release and smoke density requirements to seat materials
(applicable from February 2010)
SC E-1014 HIC compliance for front row seating (inflatable restraints)
(Applicable from July 2007)
SC E-1023 Side facing seats with with inflatable restraints
(applicable from April 2007)
SC P-32 Fuel Tank Safety
(applicable from November 2013)
SC S-38 Towbarless towing

- EASA Numbering:

SC B-09 Soft go around
(applicable from February 2017)
SC D-04 Crew Rest Compartment
(applicable from February 2018)
SC D-06 Installation of Three Point Restraint & Pretensioner System
(applicable from August 2017)
SC D-07 Installation of Oblique Seats
(applicable from August 2017)
SC D-08 Cabin Attendant Seat mounted on lavatory Door Blade
(applicable from July 2018)
SC D-100 Installation of mini suite type seating
(applicable from April 2018)
SC D-102 Incorporation of Inertia Locking Device in Dynamic Seats
(applicable from January 2019)
SC F-126 Flight Recorders including Data Link Recording
(applicable from June 2013)
SC F-131 Flight Instrument External Probes – Qualification in Icing Conditions
(applicable from April 2016)
SC F-134 Head Up Display Installation
(applicable from May 2017)
SC F-137 Security Protection of Aircraft Systems and Networks
(applicable from May 2018)
SC F-GEN-01: Installation of non-rechargeable lithium battery
(applicable from April 2019)
SC H-01 Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS
(Applicable from May 2010)

For A330-302, A330-303, A330-323, A330-342 WV22&52 and A330-343 models only:

- JAA Numbering:
  SC F-8.1 Accelerate Stop Distances
  SC S-148 Longitudinal touchdown performance + MABH deletion - JAR NPA AWO-8 (replace SC S-48 for autopilot standards certification)

For A330-302, A330-303, A330-323, A330-342, A330-343 Weight Variants 080s with Centre Tank activated (MOD 204025):

- JAA Numbering:
  SC P-27 Flammability Reduction System (June 2010)
  SC P-32 Fuel Tank Safety (November 2013)

4. Exemptions

None

5. Deviations

Deviation to Additional Airworthiness Requirements (added Post TC):

- Airborne Communication, Navigation, Surveillance
  ACNS-B-GEN-01 Deviation to CS-ACNS Initial Issue Subpart B, Section 2 (See Note in §II-2)

6. Equivalent Safety Findings

Original Equivalent Safety Findings part of Certification Basis (at time of TC):

- JAA Numbering:
  ESF S-45 Oil temperature indication
  ESF P-9 A330 / RR turbine overheat detection
  The following Special Conditions provide an equivalent safety level to JAR 25 accelerate-stop and brakes qualification requirements (NPA 25 B, D, G 244)
  - SC F-8 Accelerate stop distances
  - SC S-21 Brakes wear limits

Additional Equivalent Safety Findings part of the Certification Basis (added post TC):
The following Equivalent Safety Findings shall be considered for design change(s):

- JAA Numbering:
  The following Special Conditions provide an equivalent safety level to JAR 25 accelerate-stop and brakes qualification requirements (NPA 25 B, D, G 244)
  - SC F-8.1 Accelerate stop distances (applicable from March 1996)
  - SC S-21 Brakes wear limits

The following Equivalent Safety Findings are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  - ESF E-15 Reinforced security cockpit door (applicable from July 2002)
  - ESF E-17 Trolley Lift (applicable from November 2003)
  - ESF E-18 Lower Deck galley compartment (applicable from November 2003)
  - ESF E-21 Emergency exit marking reflectance (applicable from December 2004)
  - ESF E-27 Forward facing seats over 18 degrees to A/C centreline (applicable from June 2009)
  - ESF E-29 Fuselage burn through – aft pressure bulkhead (applicable from March 2009)
  - ESF E-30 Fuselage burn through – belly fairing (applicable from April 2009)
  - ESF E-31 Fuselage burn through – bilge area (applicable from April 2009)
  - ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis (applicable from November 2013)
  - ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials (applicable from August 2005)
  - ESF F-128 Minimum Mass Flow of Supplemental Oxygen (applicable from November 2014).
  - ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System (applicable from November 2014).

- EASA Numbering:
  - ESF B-100 Vibration / buffeting compliance criteria for large external antenna installation (applicable from April 2018).
  - ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking (applicable from February 2018).

7. Environmental Protection

7.1 Noise

See TCDSN no. EASA.A.004

7.2 Fuel Venting

ICAO Annex 16, Volume II, amendment 1, Part II, chapter II

8. Operational Suitability Data (OSD)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- EASA Approved Operational Suitability Data

9. Extended Range Operations (ETOPS)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
- EASA Approved ETOPS Capability

SECTION 2: A330-300 SERIES (Cont'd)

III. Technical Characteristics and Operational Limitations

1. Type Design Definition

With General Electric (GE) engines

A330-301: 00G000A0301/C00
A330-302: 00G000A0302/C00
A330-303: 00G000A0303/C00

With Pratt & Whitney (PW) engines

A330-321: 00G000A0321/C00 (also referred as 00G000A0321/C0S)
A330-322: 00G000A0322/C00 (also referred as 00G000A0322/C0S)
A330-323: 00G000A0323/C00

With Rolls Royce (RR) engines

A330-341: 00G000A0341/C00
A330-342: 00G000A0342/C00
A330-343: 00G000A0343/C00

2. Description

Two turbo-fan, medium to long range, twin-aisle, large category aeroplane.

3. Equipment

Refer to Type Design Definition.

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.

4. Dimensions

- Length: 63,66m (208ft 10in)
- Diameter: 05,64m (18ft 6in)
- Wing Span: 60,30m (197ft 10in)
- Height: 16,83 m (55ft 3in)

5. Engine

5.1 Model

General Electric (GE) engines

A330-301: Two (2) General Electric CF6-80E1A2 turbofan engines
A330-302: Two (2) General Electric CF6-80E1A2 turbofan engines
A330-302: Two (2) General Electric CF6-80E1A4 or CF6-80E1A4/B turbofan engines
A330-303: Two (2) General Electric CF6-80E1A3 turbofan engines

Pratt & Whitney (PW) engines

A330-321: Two (2) Pratt & Whitney 4164 turbofan engines
A330-321: Two (2) Pratt & Whitney 4164-1D turbofan engines
A330-322: Two (2) Pratt & Whitney 4168 turbofan engines
A330-322: Two (2) Pratt & Whitney 4168-1D turbofan enginesA330-323: Two (2) Pratt & Whitney 4164-1D turbofan engines
A330-323: Two (2) Pratt & Whitney 4168A turbofan engines
A330-323: Two (2) Pratt & Whitney 4168A-1D turbofan engines
A330-323 : One (1) Pratt & Whitney 4168A-1D turbofan engines
One (1) Pratt & Whitney 4168A turbofan engines
A330-323: Two (2) Pratt & Whitney 4170 turbofan engines

Rolls Royce (RR) engines

A330-341: Two (2) Rolls Royce Trent 768-60 turbofan engines
A330-342: Two (2) Rolls Royce Trent 772-60 turbofan engines
A330-343: Two (2) Rolls Royce Trent 768-60 turbofan engines
A330-343: Two (2) Rolls Royce Trent 772B-60 turbofan engines
A330-343: Two (2) Rolls Royce Trent 772C-60 turbofan engines

5.2 Type Certificate

General Electric (GE) engines

FAA Engine TCDS: E41NE
EASA Engine TCDS: EASA.IM.E.007

Pratt & Whitney (PW) engines

FAA Engine TCDS: E36NE
EASA Engine TCDS: EASA.IM.E.043

Rolls Royce (RR) engines

UK CAA Engine TCDS: 1050
EASA Engine TCDS: EASA.E.042

5.3 Limitations

5.3.1 Installed Engine Limits

General Electric (GE) engines

A/C Model	A330-301	A330-302			A330-303
Engine Model	CF6-80E1A2	CF6-80E1A2	CF6-80E1A4	CF6-80E1A4/B (MOD 52776)	CF6-80E1A3
Static thrust at sea level:					
- take-off (5mn) *	64,530 lbs	64,530 lbs	66,870 lbs	68,530 lbs	68,530 lbs
- maximum continuous	60,400 lbs	60,400 lbs	60,400 lbs	60,400 lbs	60,400 lbs

* May be extended to 10 minutes in the event of a power unit having failed or been shut down: see notes in Engine TCDS.

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

Pratt & Whitney (PW) engines

A/C Model	A330-321	A330-322	A330-323		
Engine Model	PW4164/ PW4164-1D	PW4168/ PW4168-1D	PW4164-1D	PW4168A/ PW4168A-1D	PW4170
Static thrust at sea level:					
- take-off (5mn) *	64,500 lbs	68,600 lbs	64,500 lbs	68,600 lbs	70,000 lbs
- maximum continuous	55,800 lbs	59,357 lbs	55,800 lbs	59,357 lbs	59,357 lbs

* 10 minutes at take-off thrust allowed only in case of engine failure (at take-off or during go-around in accordance with DGAC "Fiche de caractéristiques moteur".

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

Rolls Royce (RR) engines

A/C Model	A330-341	A330-342	A330-343		
Engine Model	Trent 768-60	Trent 772-60	Trent 772B-60	Trent772C-60	Trent 768-60
Static thrust at sea level:					
- take-off (5mn) *	67,500 lbs	71,100 lbs	71,100 lbs	71,100 lbs	67,500 lbs
- maximum continuous	60,410 lbs	63,650 lbs	63,650 lbs	63,650 lbs	60,410 lbs

* The take-off rating and the associated operating limitations may be used for up to 10 minutes in the event of an engine failure (see notes in Engine TCDS).

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

5.3.2 Transmission Torque Limits

N/A

6. Fluids (Fuel / Oil / Additives / Hydraulics)

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
GE: (GE Specification D50TF2)	JET A, JET A-1, JP5, JP8, N°3 Jet Fuel, JET B, JP 4, TS-1(GOST), RT(GOST)
PW: (PWA 522 Specification (PW SB N° 2016))	JET A, JET A-1, JP5, JP8, N°3 Jet Fuel, JET B, JP 4, TS-1(GOST), RT(GOST)
RR: (Operating Instruction in RR Manuel F-Trent A330)	JET A, JET A-1, JP5, JP8, N°3 Jet fuel, TS-1(GOST), RT(GOST)

The above mentioned fuels are also suitable for the APU.

Refer to Consumable Material List (CML) for details on approved fuel specifications.

6.2 Oil

Refer to the Consumable Material List (CML).

Refer to Engine and APU Manufacturers Operating Instructions.

6.3 Additives

Refer to the Consumable Material List (CML).

6.4 Hydraulics

Refer to the Consumable Material List (CML).

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

		2-TANK AEROPLANE			
		Usable fuel litres (kg)		Unusable fuel litres (kg)	
A/C Model	GE	A330-301	A330-302 A330-303	All models	
	PW	A330-321 A330-322	A330-323		
	RR	A330-341 A330-342 (except WV22 & 52)	A330-342 (WV22 & 52) A330-343		
				Basic	MOD 205749
WING TANK		91 764 (73 411)	91 300 (73 040)	348 (279)	190 (152)
TRIM TANK		6 121 (4 897)	6 230 (4 984)	6 (5)	6 (5)
TOTAL		97 885 (78 308)	97 530 (78 024)	354 (284)	196 (157)

		3-TANK AEROPLANE		
		Usable fuel litres (kg)	Unusable fuel litres (kg)	
A/C Model	GE	A330-302 WV 030s, 050s, 060s, 080s A330-303 WV 050s, 060s, 080s	All models	
	PW	A330-323 WV 030s, 050s, 060s, 080s		
	RR	A330-342 WV 050s, 060s, 080s A330-343 WV 030s, 050s, 060s, 080s		
			Basic	MOD 205749
WING TANK		91 300 (73 040)	348 (279)	190 (152)
CENTRE TANK		41 560 (33 248)	83 (67)	83 (67)
TRIM TANK		6 230 (4 984)	6 (5)	6 (5)
TOTAL		139 090 (111 272)	437 (350)	279 (223)

7.2 Oil

Refer to Weight & Balance Manual.

7.3 Coolant system capacity

N/A.

8. Air Speeds Limits

Refer to approved Aeroplane Flight Manual.

9. Rotor Speed Limits

N/A

10. Maximum Operating Altitude and Temperature

10.1 Altitude

Maximum Flight level: 41 450 ft (12 634m)

Maximum Airfield altitude: 12 500 ft (3 810m)

10.2 Temperature

Flight: Minimum: -78°C SAT

Ground: Range: -54°C to +55°C

11. Operating Limitations

Refer to approved Aeroplane Flight Manual for maximum demonstrated crosswind.

Wind Speed Limitations:

- Crosswind: Takeoff: A/C : 40kt (gust included)
  Engine: Refer to AFM Limitation section
  Landing: A/C : 40kt (gust included)
  Engine: Refer to AFM Limitation section
- Tailwind: Takeoff: 10kt (15kt with MOD 55240)
  Landing: 10kt (15kt with MOD 58852)

A/C Model	GE Engines	PW Engines	RR Engines
15kt tailwind at Takeoff	A330-302 (55240) A330-303 (55240)	-	-
15kt tailwind at Landing	A330-301 (58852) A330-302 (58852) A330-303 (58852)	-	A330-341 (58852) A330-342 (58852) A330-343 (58852)

12. Maximum Weight

		EIS									
Variant (MOD)		**000** (Basic)	**001** (42200)	**002** (42600)	**003** (44270)	**004** (44849)	**010** (43308)	**011** (44803)	**012** (45086)	**013** (46688)	**014** (48377)
Models	GE	A330-301	A330-301	A330-301	A330-301	A330-301	A330-301	-	-	-	-
	PW	A330-321 A330-322	-	A330-321 A330-322	A330-321 A330-322	A330-321 A330-322	A330-321 A330-322	A330-321 A330-322	A330-321 A330-322	A330-321 A330-322	-
	RR	A330-341 A330-342	-	A330-341 A330-342	A330-341 A330-342	A330-341 A330-342	A330-341 A330-342	A330-341 A330-342	A330-341 A330-342	A330-341 A330-342	A330-341 A330-342
MTOW (T)		212	184	212	215	215-209*	217	212	218	215	205
MLW (T)		174	174	177	177	182-177*	179	177	182	177	182
MZFW (T)		164	164	167	167	172-167*	169	167	172	167	172

(*) Linear variation between those weights

		Growth					
Variant (MOD)		**020** (Basic)	**022** (47785)	**024** (48350)	**025** (49651)	**026** (204732)	**027** (204733)
Models	GE	-	-	-	-	-	-
	PW	A330-323	A330-323	-	A330-323	A330-323	A330-323
	RR	A330-343	A330-342 A330-343	A330-343	-	-	-
MTOW (T)		230	233	205	217	217	198
MLW (T)		185	187	185	179	185	185
MZFW (T)		173	175	173	169	173	173

		Enhanced										
Variant (MOD)		**050** (51805)	**051** (51806)	**052** (51807)	**053** (52924)	**054** (201648) (202218)	**055** (202462)	**056** (202878)	**057** (203716)	**058** (204297)	**059** (204475)	**060** (204476)
Models	GE	A330-302 A330-303	A330-301	A330-302 A330-303	A330-302	A330-302 A330-303	A330-302 A330-303	A330-302 A330-303	-	-	-	-
	PW	A330-323	-	A330-323	-	A330-323	A330-323	A330-323	A330-323	-	A330-323	A330-323
	RR	A330-343	-	A330-342 A330-343	-	A330-342 A330-343	A330-342 A330-343	A330-342 A330-343	A330-342 A330-343	A330-342 A330-343	-	-
MTOW (T)		230	212	233	205	235	235	205	184	215	217	198
MLW (T)		185	187	187	185	187	187	187	174	187	185	185
MZFW (T)		173	175	175	173	173	175-173*	175	164	173	173	173

(*) Linear v(*) Linear variation between those weights

		Regional						
Variant (MOD)		**030** (204439)	**031** (204440)	**032** (204441)	**033** (204442)	**034** (204443)	**035** (204444)	**039** (204445)
Models	GE	A330-302*	A330-302*	A330-302*	A330-302*	A330-302*	A330-302*	A330-302*
	PW	A330-323**	A330-323**	A330-323**	A330-323**	A330-323**	A330-323**	A330-323**
	RR	A330-343***	A330-343***	A330-343***	A330-343***	A330-343***	A330-343***	A330-343***
MTOW (T)		199	199	190	190	205	205	217
MLW (T)		185	187	185	187	185	187	187
MZFW (T)		173	175	173	175	173	175	175

(*) A330-302 “Regional” only with General Electric CF6-80E1A2 turbofan engines

(**) A330-323 “Regional” only with Pratt & Whitney 4164-1D turbofan engines

(***) A330-343 “Regional” only with Rolls Royce Trent 768-60 turbofan engines

		242t			
Variant (MOD)		**080** (203897)	**081** (203898)	**082** (203900)	**083** (203899)
Models	GE	A330-302 A330-303	A330-302 A330-303	A330-302 A330-303	A330-302 A330-303
	PW	A330-323	A330-323	A330-323	A330-323
	RR	A330-342 A330-343	A330-342 A330-343	A330-342 A330-343	A330-342 A330-343
MTOW (T)		238	242	242-238*	240
MLW (T)		187	187	187	187
MZFW (T)		175	171	175-171*	173

(*) Linear variation between those weights

13. Centre of Gravity Range

Refer to approved Aeroplane Flight Manual.

14. Datum / Mean Aerodynamic Chord (MAC)

Datum: Station 0.0, located 6,382 meters forward of aeroplane nose.

MAC: 7,270m

15. Levelling Means

Three primary jacking points: Refer to approved Weight and Balance Manual.

16. Minimum Flight Crew

Two (2): Pilot and Co-pilot.

17. Passenger Emergency Exit

Two Passenger Emergency Exit configurations:

- Configuration A-A-I-A: Basic 3 Type A passenger doors and 1 Emergency Exit Type I
- Configuration A-A-A-A: Option 4 Type A passenger doors (MOD 40161)

18. Maximum Passenger Seating Capacity and associated Minimum Number of Cabin Crew

The maximum number of passengers approved for emergency evacuation is:

- 375 Basic (in Configuration A-A-I-A);
- 440 Option (in Configuration A-A-A-A).

See interior layout drawing for the maximum passenger capacities approved for each aeroplane when delivered.

The table below provides the certified Maximum Passenger Seating Capacities (MPSC), the corresponding cabin configuration (exit arrangement and modifications) and the associated minimum numbers of cabin crew members used to demonstrate compliance with the certification requirement:

Maximum Passenger Seating Capacity (MPSC) & Cabin Configuration		Minimum Cabin crew
440	Configuration A-A-A-A (MOD 40161)	9
400	Configuration A-A-A-A (MOD 40161)	8
375	Configuration A-A-I-A (Basic)	8

A lower number of cabin crew may be approved by EASA for specific cabin layouts.

19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)
Forward	22861
Aft	18507
Rear (bulk)	3468

For the positions and the loading conditions authorized in each position (references of containers, pallets and associated weights), see Weight and Balance Manual.

20. Rotor Blade control movement

N/A

21. Auxiliary Power Unit (APU)

One GARRETT (Company name changed to Honeywell International Inc. in 1999):
- GTCP 331-350C (Specification 31-7677A)
-

22. Life-limited parts

Refer to Airworthiness Limitation Section

See SECTION: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

SECTION 2: A330-300 SERIES – Cont'd

IV. Operating and Service Instructions

In accordance with EASA Part 21 regulation, Airbus provide on-demand access to the following technical publications to any person required to comply with any of those instructions :

(Access via AirbusWorld portal)

1. Flight Manual (AFM)

   Ref. AFM 33000 (latest published revision)

2. Maintenance Manual

   Refer to Customized Maintenance Manuals published by Airbus (latest published revision)

3. Structural Repair Manual (SRM)

   Refer to Customized SRM published by Airbus (latest published revision)

4. Weight and Balance Manual (W&BM)

   Refer to Customized W&BM published by Airbus (latest published revision)

5. Illustrated Parts Catalogue (IPC)

   Refer to Customized IPC published by Airbus (latest published revision)

6. Service Bulletins (SBs)

   Refer to applicability section of Airbus Service Bulletins (latest published revision)

7. Required Equipment

   The equipment required by the applicable regulation shall be installed.

   Refer also to MMEL – See SECTION: DATA PERTINENT TO ALL MODELS.

SECTION 2: A330-300 SERIES – Cont'd

V. Notes

1. All Weather Capability

A/C Model	GE Engines		PW Engines		RR Engines
	A330-301 - -	- A330-302 A330-303	A330-321 A330-322 -	- - A330-323	A330-341 A330-342 A330-343
Type Design Capability	-	Cat 3 Precision approach and autoland	-	Cat 3 Precision approach and autoland	Cat 3 Precision approach and autoland
Option Capability (MOD)	Cat 2 Precision approach (42390)	-	-	-	-
	Cat 3 Precision approach and autoland (42792)	-	Cat 3 Precision approach and autoland (43397)	-	-

2. Conversions between Models

The following A/C Model conversions are approved:

- A330-301 can be converted into A330-303 by application of Airbus Service Bulletin A330-00-3036 covering modification 53107.
- A330-321 can be converted into A330-322 by application of Airbus Service Bulletin A330-00-3013 covering modification 46661.
- A330-343 can be converted into A330-342 by application of Airbus Service Bulletin A330-00-3039 covering modification 50943.

The following A/C Model engine configuration changes are approved:

- It is feasible for A330-343 to be fitted with RR Trent 772 engines by application of Service Bulletin 72-3008 (Mod 49684) and to be reverted to RR Trent 772B engines installation by Service Bulletin 72-3009 (Mod 49685).

3. Change of Weight Variants

The following A/C Models may be changed to WV 080 by application of MOD 205273 (from MSN 1627 onwards):

- A330-302, A330-303 WV 030s, 050s, 060s
- A330-323 WV 030s, 050s, 060s
- A330-342, A330-343 WV 030s, 050s, 060s

4. Fuel tank Flammability Reduction System (FRS)

When the centre fuel tank is installed (mod 204025), the aircraft is equipped in production with a fuel tank Flammability Reduction System (Modification 58723). This system shall remain installed and operative and can only be dispatched inoperative in accordance with the provisions of the MMEL revision associated with Modification 58723.

SECTION 3: A330-700L SERIES

I. General

1. Type / Model

1.1 Type

A330

1.2 Model

A330-743L

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

EASA

4.2 Application Date

A330-743L TC: 1 December 2014

A330-743L STC (Courier Area*): 29 May 2015

*Airbus Interior Services (AIS) applied for a Supplemental Type Certificate for the Courier Area, which is associated to the Airbus aircraft Type Design Definition.

4.3 State of Design Authority Type Certificate Date

A330-743L TC: 11 November 2019

A330-743L Courier Area STC: 11 November 2019

5. EASA Type Certification Date

5.1 State of Design Authority

EASA

5.2 Application Date

A330-743L TC: 1 December 2014

A330-743L STC (Courier Area*): 29 May 2015

*Airbus Interior Services (AIS) applied for a Supplemental Type Certificate for the Courier Area, which is associated to the Airbus aircraft Type Design Definition.

5.3 State of Design Authority Type Certificate Date

A330-743L TC: 11 November 2019

A330-743L Courier Area STC: 11 November 2019

SECTION 3: A330-700L SERIES (Cont'd)

II. Certification Basis

1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification (TC): 1st December 2014

Reference Application Date for EASA Certification (STC): 29th May 2015

2. Airworthiness Requirements

Original Airworthiness Requirements (at time of TC):

- Certification Requirements

JAR 25 Change 13 effective on October 5, 1989 except as follows:

- JAR 25.561 is applied at change 12 for wing tanks outside the fuselage contour;
- JAR 25.415 is applied at change 14 for ground gust condition for control systems;

Plus the following CS 25 paragraphs applicable at Amdt 15 related to the Overall A/C Design (Loads, Handling Qualities, Performances, Ditching, Rapid decompression, Acoustic Fatigue, Aeroelasticity, AFM, Lightning and HIRF protection, Engine/APU rotor burst):

25.21(a)(c)(d)(e)(f), 25.23, 25.25, 25.27, 25.101, 25.103(a)(c)(d), 25.105(b)(c)(d), 25.107(a)(b)(c)(d)(e)(f)(g), 25.109, 25.111(a)(b)(d), 25.113, 25.115, 25.117, 25.119, 25.121(a), 25.123(a), 25.125, 25.143(a)(b1)(b3)(d)(e)(f)(g)(h)(k), 25.145(a)(b)(c)(e), 25.147(a)(c)(d)(f), 25.149, 25.161, 25.171, 25.177, 25.181, 25.201, 25.203, 25.231(a), 25.233, 25.235, 25.251(b)(c)(d)(e), 25.253(a)(b), 25.255, 25.301(b)(c), 25.302, 25.303, 25.305(c)(f), 25.321(b), 25.321(c), 25.321(d), 25.331(a), 25.331(b), 25.331(c), 25.333, 25.335(a)(b)(e), 25.335(b), 25.335(c), 25.335(d), 25.335(e), 25.337, 25.427, 25.341, 25.343(a)(b1)(b3), 25.345(a), 25.345(b), 25.345(d), 25.349, 25.351, 25.363, 25.365(e1)(e2)(e3)(f)(g), 25.367, 25.371, 25.373, 25.391, 25.445, 25.457, 25.471(b), 25.473, 25.479, 25.481(a)(c), 25.483, 25.485, 25.489, 25.491, 25.493, 25.495, 25.499, 25.503, 25.507, 25.509, 25.511, 25.519, 25.561, 25.571(a)(b)(c)(d)(e), 25.581, 25.603(c), 25.629, 25.721(b), 25.777(i), 25.791, 25.807(i), 25.812(a1)(f)(i)(j)(k), 25.899, 25.903(d1), 25.954, 25.1001(a)(b), 25.1309(a)(b)(c), 25.1323(c)(d), 25.1325(e), 25.1353(a), 25.1431(c)(d), 25.1501, 25.1503, 25.1505, 25.1507, 25.1511, 25.1513, 25.1515, 25.1516, 25.1517, 25.1519, 25.1527, 25.1531, 25.1533, 25.1581(a)(b)(d), 25.1583(a)(b)(c)(d)(e)(f)(h)(i)(k), 25.1585(a)(b)(c)(e)(f), 25.1587(b), 25.1591, 25J903(d1)

Plus the following CS 25 paragraphs applicable at Amdt 2

25.103(b), 25.105(a), 25.111(c), 25.119, 25.121(b)(c)(d), 25.123(b), 25.125, 25.207, 25.237, 25.251(a), 25.1419 (flight in icing conditions or load factor)

Plus the following CS 25 paragraphs applicable at Amdt 17

25.1316, 25.1317 (Elect to Comply for Aircraft Electrical and Electronic System Lightning and HIRF protection)

Plus the following CS 25 paragraph applicable at Amdt 23

25.1324 (post TC changes impacting Angle of Attack Installation)

Plus the following CS 25 paragraphs applicable at Amdt 15 related to the significant structural changes applied on the A/C (lowered nose section containing the cockpit and the courier area, upper bubble, modified HTP with its auxilliary fins, shifted up VTP, dorsal fin and ventral fins, additionnal fuselage section, pressure bulkhead door and belly door, pressure roof between pressurized compartments and main deck cargo compartment):

25.302, 25.305(a)(b)(c), 25.307(a), 25.365(a)(b)(d)(e2), 25.509(b), 25.519, 25.561(b)(c)(d), 25.571(a1)(a2)(a3)(b)(c)(e1)(e3)(e4), 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.613, 25.619, 25.621, 25.625, 25.631, 25.683(b), 25.783(a), 25.789, 25.841(b7), 25.843(a), 25.903(d1)

Plus the following CS 25 paragraph applicable at Amdt 8

25.603 (materials of the modified FRE)

Plus the following CS 25 paragraphs applicable at Amdt 15 related to the cargo function (unpressurized Main Deck Cargo Compartment (class E), Main Deck Cargo Door and its Cargo Door Actuation System (CDAS), Cargo Loading System (CLS) in the main deck cargo area):

25.001, 25.301(a), 25.305(a)(b), 25.307(a), 25.365(e), 25.561, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613(a)(b)(c), 25.631, 25.783(a)(b)(c)(d)(e)(f)(g2)(h), 25.787, 25.789, 25.793, 25.809(b)(c), 25.811, 25.831, 25.832, 25.841, 25.843, 25.851(a), 25.853(a), 25.855(a)(b1)(c2)(d)(e)(f)(g)(i), 25.856(a), 25.857(e), 25.863, 25.0869(a), 25.899, 25.903(d1), 25.954, 25.1103(d), 25.1301(a)*, 25.1309(a)(b)(c)*, 25.1353(a)(e), 25.1357, 25.1360, 25.1365(d), 25.1431(a)(c)(d), 25.1435, 25.1438, 25.1455, 25.1461, 25.1519, 25.1527, 25.1541, 25.1557(a)(c)

Plus the following CS 25 paragraph applicable at Amdt 2

25.1419(a)

Plus the following CS 25 paragraphs applicable at Amdt 17

25.1316, 25.1317 (Elect to Comply for Aircraft Electrical and Electronic System Lightning and HIRF protection)

* In this category related to cargo function, paragraphs CS25.1301(a) and CS25.1309(a)(b)(c) apply to the Main Deck Cargo Door, Cargo Access Door and CLS equipments. In addition, CS25.1309(a) applies also to ATA 390 and 391 (Lightning direct/indirect effect).

Plus the following CS 25 paragraphs applicable at Amdt 15 related to the pressurized areas (Courier Area, cockpit, emergency escape path to evacuate through Cockpit Sliding Windows, pressure bulkhead door and belly door, avionic bay):

25.001, 25.365(e)(f)(g), 25.561(c), 25.571(e4), 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.631, 25.777(i), 25.783(a)(b)(c)(d)(e)(f)(g2)(h), 25.789, 25.791, 25.803(a)(c), 25.807(a)(e)(f)(g)(i)(j), 25.809(a)(b)(c)(e)(g), 25.810(a1)(a2), 25.811, 25.812(h), 25.813(e), 25.831, 25.832, 25.841, 25.843, 25.851(a)(c), 25.853(a), 25.854, 25.855(d)(e)(h2)(i), 25.856(a), 25.857(e), 25.863, 25.0869(a), 25.899, 25.903(d1), 25.954, 25.1103(d), 25.1301(a)*, 25.1309(a)(b)(c)*, 25.1353(a)(e), 25.1357, 25.1360(a), 25.1362, 25.1365(d), 25.1411(c)(d)(f), 25.1431(a)(c)(d), 25.1435, 25.1438, 25.1461, 25.1527, 25.1541, 25.1557(a)(c)

Plus the following JAR 25 paragraphs applicable at change 14

25.789, 25.831(e), 25.853(a), 25.869(a), 25.903(d1), 25.1301, 25.1309, 25.1353(a)(b)(d), 25.1355(c), 25.1357(a), 25.1360(a), 25.1423(a), 25.1431 (CIDS)

Plus the following CS 25 paragraph applicable at Amdt 2

25.1419(a)

Plus the following CS 25 paragraphs applicable at Amdt 17

25.1316, 25.1317 (Elect to Comply for Aircraft Electrical and Electronic System Lightning and HIRF protection)

* In this category related to pressurized areas, paragraphs CS25.1301(a) and CS25.1309(a)(b)(c) apply to the Belly Door and the Pressure Bulkhead Door. In addition, CS25.1309(a) applies also to ATA 390 and 391 (Lightning direct/indirect effect).

Plus the following CS 25 paragraphs applicable at Amdt 15 in the frame of the Courier Area STC:

25.301, 25.303, 25.305, 25. 307, 25.365(e)(f)(g), 25.561, 25.571, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611(a), 25.613, 25.619, 25.623, 25.625, 25.787, 25.789, 25.791, 25.793, 25.803, 25.811(b)(c)(d)(g), 25.813, 25.815, 25.820, 25.831, 25.832, 25.853, 25.854, 856(a), 25.869(a1)(a2), 25.899, 25.1357, 25.1360, 25.1362, 25.1411, 25.1431, 25.1450, 25.1519, 25.1541, 25.1557, 25.1585

Plus the following JAR 25 paragraphs applicable at change 14

25.1423(b)(c)(d) (public adress system)

Plus the following CS 25 paragraphs applicable at Amdt 17

25.1316, 25.1317 (Elect to Comply for Aircraft Electrical and Electronic System Lightning and HIRF protection)

Plus the following CS 25 paragraphs applicable at Amdt 19

25.812(a)(b)(c)(d)(e)(f)(i)(j)(k)(l) (emergency lighting)

- Airborne Communication, Navigation, Surveillance

  CS-ACNS Initial Issue

  - Subpart B, Section 2 – for optional modifications (Post TC) installing FANS aiming at answering to SES mandate as defined in (EU) N° 29/2009 and amended by (EU) N° 310/2015 of 26 Febuary 2015.

    Note: For compliance to CS-ACNS Subpart B, Section 2, a deviation to CS-ACNS.B.DLS.B1.075 is accepted by DEV ACNS-B-GEN-01 to not include DM89 MONITORING [unit name] [frequency] in the downlink message set installed.

  - Subpart D – for optional modifications installing transponders aiming at answering to SES mandate as defined in (EU) No 1207/2011 and amended by (EU) No 1028/2014 of 26 September 2014.

  - Subpart E, Section 2 – for RVSM

3. Special Conditions

Original Special Conditions part of Certification Basis (at time of TC):

- JAA Numbering:

SC A-4	Design Dive Speed (VD)
SC A-5	Limit pilot forces and torque
SC G-5	Resistance to fire terminology
SC P-32	Fuel Tank Safety
SC S-3	Landing gear warning
SC S-6	A330/A340 Lightning Protection Indirect Effects
SC S-10	A330/A340 Effect Of External Radiation Upon Aircraft Systems
SC S-13	Autothrust system
SC S-16	Control signal integrity
SC S-18	Unusual features not addressed by existing JAR
SC S-20	Emergency Electrical Power
SC S-21	Brakes Wear Limits
SC S-23	Electrical wiring and miscellaneous electrical requirements
SC S-24	Doors
SC S-38	Towbarless Towing
SC S-148	Longitudinal touchdown performance limit + MABH deletion

- EASA Numbering:

SC B-01-700L	Stalling and scheduled operating speeds
SC B-02-700L	Electronic flight control system, control surface awareness
SC B-04-700L	Static directional, lateral and longitudinal stability and low energy awareness
SC B-05-700L	Flight enveloppe protections
SC B-06-700L	Load factor limiting system
SC B-14-700L	On-Ground Yaw Stabilisation Law – R* law
SC D-02-700L	Courier Area: Allowed Occupants
SC D-03-700L	Emergency evacuation
SC D-10-700L	Brake kinetic energy capacity
SC D-50/700L/AIS	Courier Area Airworthiness Requirements
SC F-126	Flight Recorders including Data Link Recording
SC F-131	Flight Instrument External Probes – Qualification in Icing Conditions New UTAS Pitot Probes
SC F-137	Security protection of aircraft systems and networks
SC F-GEN-01	Non-rechargeable lithium battery installation
SC H-01	Enhanced Airworthiness programme for Aeroplane Systems – ICA on EWIS

4. Exemptions

None

5. Deviations

Deviation to Additional Airworthiness Requirements:

- Airborne Communication, Navigation, Surveillance

ACNS-B-GEN-01 Deviation to CS-ACNS Initial Issue Subpart B, Section 2 (See Note in §II-2)

6. Equivalent Safety Findings

Original Equivalent Safety Findings part of Certification Basis (at time of TC):

- JAA Numbering:

ESF E-1022	Improved flammability standards for thermal / acoustic insulation materials

- EASA Numbering:

ESF D-06-700L	Main Deck Class E Cargo Compartment
ESF D-07-700L	Cockpit sliding windows compliance aspects with CS 25.783
ESF D-11-700L	Pressure Bulkhead and Cargo Access Doors – Compliance aspects with CS 25.783
ESF D-15-700L	Cockpit Sliding Window Fasteners - Compliance aspects with CS 25.607(a)(c)
ESF D-16-700L	Main Deck Cargo Door visual indication provision as per CS 25.783(f)
ESF F-03-700L	Landing Light Switch

7. Environmental Protection

7.1 Noise

See TCDSN no. EASA.A.004

7.2 Fuel Venting

CS-34 amendment 1, ICAO Annex 16, Volume II, amendment 07, Part II, chapter II

8. Operational Suitability Data (OSD)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- EASA Approved Operational Suitability Data

9. Extended Range Operations (ETOPS)

No ETOPS approval for A330-700L is granted initially.

SECTION 3: A330-700L SERIES (Cont'd)

III. Technical Characteristics and Operational Limitations

1. Type Design Definition

With Rolls Royce (RR) engines

A330-743L: 00G000A0743/C00

This aircraft type design definition is associated with AIS (Airbus Interiors Services) Modification *CJ 1970 - Courier Area Installation*.

2. Description

Two turbo-fan, medium range, cargo, large category aeroplane.

3. Equipment

Refer to Type Design Definition.

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

- 00F252K0005/C01 for cabin seats.
- 00F252K0006/C01 for galley.

4. Dimensions

- Length:	63,12m	(207ft 1in)
- Fuselage maximum height:	10,49 m	(34ft 5in)
- Fuselage maximum width:	8,80 m	(28ft 10in)
- Wing Span:	60,30m	(197ft 10in)
- Aircraft height:	18,95 m	(62ft 2in)

-

5. Engine

5.1 Model

Rolls Royce (RR) engines

A330-743L: Two (2) Rolls Royce Trent 772B-60 turbofan engines

5.2 Type Certificate

Rolls Royce (RR) engines

EASA Engine TCDS: EASA.E.042

5.3 Limitations

5.3.1 Installed Engine Limits

Rolls Royce (RR) engines

A/C Model	A330-743L
Engine Model	Trent 772B-60
Static thrust at sea level: - take-off (5mn) * - maximum continuous	 71,100 lbs 63,650 lbs

* The take-off rating and the associated operating limitations may be used for up to 10 minutes in the event of an engine failure (see notes in Engine TCDS). Other engine limitations: See the relevant Engine TCDSs.

5.3.2 Transmission Torque Limits

N/A

6. Fluids (Fuel / Oil / Additives / Hydraulics)

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
RR: (Operating Instruction in RR Manual F-Trent A330)	JET A, JET A-1, JP5, JP8, N°3 JET fuel, TS-1(GOST), RT(GOST)

The above mentioned fuels are also suitable for the APU .

Refer to Consumable Material List (CML) for details on approved fuel specifications.

6.2 Oil

Refer to the Consumable Material List (CML).

Refer to Engine and APU Manufacturers Operating Instructions.

6.3 Additives

Refer to the Consumable Material List (CML).

6.4 Hydraulics

Refer to the Consumable Material List (CML).

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

		3-TANK AEROPLANE		
		Usable fuel litres (kg)	Unusable fuel litres (kg)	
A/C Model	GE	-	All models	
	PW	-		
	RR	A330-743L WV 000, 001		
			Basic	MOD 207112 (MSN 1824 only) or 205749 (MSN 1853 and onward)
WING TANK		91 300 (73 040)	169 (135)	90 (72)
CENTRE TANK		N/A	N/A	N/A
TRIM TANK		N/A	N/A	N/A
TOTAL		91 300 (73 040)	169 (135)	90 (72)

7.2 Oil

Refer to Weight & Balance Manual.

7.3 Coolant system capacity

N/A.

8. Air Speeds Limits

Refer to approved Aeroplane Flight Manual.

9. Rotor Speed Limits

N/A

10. Maximum Operating Altitude and Temperature

10.1 Altitude

Maximum Flight altitude: 35 200 ft (10 729m)

Maximum Airfield altitude: 7 000 ft (2 134m)

10.2 Temperature

Flight: Minimum: -70°C SAT (TAT shall be greater than -40°C)

Ground: Range: -54°C to +55°C for Take-off and landing

11. Operating Limitations

Refer to approved Aeroplane Flight Manual for maximum demonstrated crosswind.

Wind Speed Limitations:

- Crosswind:	Takeoff:	A/C :	27kt (gust included)
		Engine:	Refer to AFM Limitation section
	Landing:	A/C :	27kt (gust included)
		Engine:	Refer to AFM Limitation section
- Tailwind:	Takeoff:	10kt	
	Landing:	10kt	

12. Maximum Weight

Variant (MOD)		**000** (Basic)	**001** (208331)
Models	GE	-	-
	PW	-	-
	RR	A330-743L	A330-743L
MTOW (T)		227	205
MLW (T)		187	187
MZFW (T)		178	178

13. Centre of Gravity Range

Refer to approved Aeroplane Flight Manual.

14. Datum / Mean Aerodynamic Chord (MAC)

Datum: Station 0.0, located 4,882 meters forward of aeroplane nose.

MAC: 7,270m

15. Levelling Means

For maintenance: Three primary jacking points and one auxilliary point are fitted.

For cargo loading/unloading: Two of the four maintenance points are used.

Refer to approved Weight and Balance Manual.

16. Minimum Flight Crew

Two (2): Pilot and Co-pilot.

17. Occupant Emergency Exit

Emergency Exits are both Cockpit Sliding Windows.

No other Emergency Exit configuration exist.

18. Maximum Occupant Seating Capacity and associated Minimum Number of Cabin Crew

The maximum number of allowed occupants approved for emergency evacuation is:
- 4 in the Courier Area, and
- 1 in the cockpit (in addition to the two Flight Crew members)

No Cabin Crew members are required.

19. Maximum Baggage/ Cargo Loads

Cargo compartment	**Maximum load (kg)**
Main Deck Cargo Compartment	Up to the maximum allowable payload as per WBM, providing it complies with the requirements contained in the BelugaXL *Interface Specification between Aircraft & TCU* document, reference 00G000AT002/C7S.
Aft	18507
Rear (bulk)	3468

For the Main Deck Cargo Compartment: loading conditions and requirements for cargo transportation, see Weight and Balance Manual and A330-700L - Interface Specification between Aircraft & TCU, reference 00G000AT002/C7S.

For the Aft and Rear (bulk) compartments: loading conditions authorized on each ULD (Unit Load Device) position or bulk section (references of ULD baseplate, MAX gross weight and CLS (Cargo Loding System) malfunctions), see Weight and Balance Manual.

20. Rotor Blade control movement

N/A

21. Auxiliary Power Unit (APU)

One GARRETT (Company name changed to Honeywell International Inc. in 1999):
- GTCP 331-350C (Specification 31-7677B-1H)

22. Life-limited parts

Refer to Airworthiness Limitation Section
See SECTION: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

SECTION 3: A330-700L SERIES (Cont'd)

IV. Operating and Service Instructions

In accordance with EASA Part 21 regulation, Airbus provide on-demand access to the following technical publications to any person required to comply with any of those instructions :

(Access via AirbusWorld portal)

1. Flight Manual (AFM)

   Ref. AFM: STL 33000 (latest published revision)

2. Maintenance Manual

   Refer to Customized Maintenance Manuals published by Airbus (latest published revision)

3. Structural Repair Manual (SRM)

   Refer to Customized SRM published by Airbus (latest published revision)

4. Weight and Balance Manual (W&BM)

   Refer to Customized W&BM published by Airbus (latest published revision)

5. Illustrated Parts Catalogue (IPC)

   Refer to Customized IPC published by Airbus (latest published revision)

6. Service Bulletins (SBs)

   Refer to applicability section of Airbus Service Bulletins (latest published revision)

7. Required Equipment

   The equipment required by the applicable regulation shall be installed.

   Refer also to MMEL – See SECTION: DATA PERTINENT TO ALL MODELS.

SECTION 3: A330-700L SERIES (Cont'd)

V. Notes

1. All Weather Capability

A/C Model	RR Engines
	A330-743L - -
Type Design Capability	Cat 1 manual ILS CAT I approach using Raw Data
Option Capability (MOD)	N/A

2. Conversions between Models

N/A

3. Change of Weight Variants

N/A

SECTION 4: A330-800 SERIES

I. General

1. Type / Model

1.1 Type

A330

1.2 Model

A330-841

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

EASA

4.2 Application Date

A330-841: 25 July 2014

4.3 State of Design Authority Type Certificate Date

A330-841: TC Date to be mentioned

5. EASA Type Certification Date

5.1 State of Design Authority

EASA

5.2 Application Date

A330-841: 25 July 2014

5.3 State of Design Authority Type Certificate Date

A330-841: TC Date to be mentioned

SECTION 4: A330-800 SERIES (Cont'd)

II. Certification Basis

1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 04 March 2015

2. Airworthiness Requirements

Original Airworthiness Requirements (at time of TC):

- Certification Requirements

JAR 25 Change 13 effective on October 5, 1989 except as follows:

- JAR 25.561 is applied at change 12 for wing tanks outside the fuselage contour;
- For showing compliance with JAR 25.785(a)(b)(c), the front row seats located behind a bulkhead are not tested according to JAR 25.562(c)(5)(6). Instead, a minimum 35 inches distance between the seats and the bulkhead is considered as an acceptable alternative.

With the following JAR 25 paragraphs applicable at change 14:

25.307 (except (a)), 25.335(f), 25.345(c), 25.361, 25.371, 25.395, 25.397, 25.459, 25.571, 25.603 (applicable to vertical stabilizer only), 25.613 (applicable to vertical stabilizer only), 25.615 (applicable to vertical stabilizer only), 25.679, 25.723, 25.729, 25.731, 25.733, 25.735, 25.772, 25.777, 25.779(a), 25.783, 25.851, 25.855(a)(b)(c)(d)(e), 25.863, 25.867, 25X899 (applicable to vertical stabilizer only), 25.963(g) (applicable to fuel centre tank only), 25.979, 25.1303, 25.1381, 25.1415, 25.1543

Plus the following CS 25 paragraphs applicable at Amdt 2

25.021, 25.103(b), 25.105(a), 25.111(c), 25.119, 25.121 (except (a)), 25.123(b), 25.125, 25.207, 25.237, 25.253, 25.1419

Plus the following CS 25 paragraphs applicable at Amdt 13

25.963(e) (Fuel Tank Access Covers) with 25.963(e)(1) including the design features as per E-16 in the Annex to this TCDS.

Note: Any change or repair that would decrease the safety level of the E-16 design features would lead to the application of CS 25.963(e)(1) at amendment 15 or higher.

Plus the following CS 25 paragraphs applicable at Amdt 15 (applicable at the reference date)

25.023, 25.025, 25.027, 25.029, 25.031, 25.101, 25.103 (except (b)), 25.105 (except (a)), 25.107 (except (h)), 25.109, 25.111 (except (c)), 25.113, 25.115, 25.117, 25.121(a), 25.123 (except (b)), 25.143 (except (c)(i)(j)(l)), 25.145, 25.147, 25.149, 25.161, 25.171, 25.173, 25.175, 25.177, 25.181, 25.201, 25.203, 25.231, 25.233, 25.235, 25.251, 25.253 (except (c)), 25.255, 25.301, 25.302, 25.303, 25.305, 25.307(a), 25.321, 25.331, 25.333, 25.335 (except (f)), 25.337, 25.341, 25.343, 25.345 (except (c)), 25.349, 25.351, 25.365 (except (e),(f),(g)), 25.367, 25.373, 25.391, 25.393, 25.415, 25.427, 25.457, 25.471(b), 25.473, 25.479, 25.481(except (b)), 25.483, 25.485, 25.489, 25.491, 25.493, 25.495, 25.499, 25.503, 25.507, 25.509, 25.511, 25.519, 25.561(c) (applicable to large items of masses only), 25.571, 25.619, 25.625, 25.629, 25.631, 25.683(b), 25.773(b), 25.777(i), 25.809(g) (applicable to Door 3 panelization area only), 25.843(a), 25.901(c), 25.963(a), 25.963(d1)

(applicable to fuel centre tank only), 25.1001(a)(b)(c) , 25.1323(c)(d), 25.1325(e), 25.1337, 25.1355, 25.1383, 25.1501, 25.1503, 25.1505, 25.1507, 25.1511, 25.1513, 25.1515, 25.1516, 25.1517, 25.1519, 25.1531, 25.1533, 25.1535, 25.1581, 25.1583, 25.1585, 25.1587, 25.1591

Plus the following CS 25 paragraphs applicable at Amdt 15 related to engine installation:
(New Engine, Pylon, pre-cooler, air inlet and nacelle, Structural adaptation of the wing at the wing/pylon interface, Electro Pneumatic Bleed Air System)

25.301, 25.303, 25.307, 25.361(a), 25.362, 25.363, 25.365(e1), 25.371, 25.561(c), 25.571, 25.581, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.621, 25.625, 25.631, 25.721 (except (a)), 25.723(b), 25.771(e), 25.779(b), 25.851 (except (a)), 25.856(a), 25.863, 25.865, 25.867, 25.869(a), 25.899, 25.901, 25.903, 25.933, 25.934, 25.939, 25.943, 25.951, 25.952, 25.954, 25.955(a), 25.959, 25.961, 25.963(d5), 25.981(a), 25.993 (except (f)), 25.994, 25.995, 25.997, 25.999, 25.1001(a)(b), 25.1011, 25.1013, 25.1015, 25.1017, 25.1019, 25.1021, 25.1023, 25.1025, 25.1041, 25.1043, 25.1045, 25.1091, 25.1093, 25.1103, 25.1121, 25.1123, 25.1141, 25.1143, 25.1145, 25.1155, 25.1163, 25.1165, 25.1167, 25.1181, 25.1182, 25.1183, 25.1185, 25.1187, 25.1189 (except (c),(f),(g),(h)), 25.1191, 25.1193, 25.1195, 25.1197, 25.1199, 25.1201, 25.1203, 25.1207, 25.1301, 25.1305, 25.1309, 25.1315, 25.1321(d), 25.1351 (except (a),(c)), 25.1353 (except (c)), 25.1357(a)(d)(e), 25.1360(a), 25.1431, 25.1435(a), 25.1438, 25.1461, 25.1521, 25.1527, 25.1549, 25.1551, 25.1557(b), 25.1593, 25.1701, 25.1703 (except (c)), 25.1705, 25.1707, 25.1709, 25.1711, 25.1713, 25.1715, 25.1717, 25.1719, 25.1721 (except (c)), 25.1723, 25.1725, 25.1727, 25.1731

Plus the following CS 25 paragraphs applicable at Amdt 15 related to aerodynamic changes:
(New winglet with wing span increase, Wing Aerodynamic clean up, Wing twist change, Wing engine interference, new navigation and strobe lights)

25.301, 25.303, 25.307, 25.445, 25.571 (except (e4)), 25.581, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.625, 25.631, 25.683(b), 25.723(b), 25.863(a)(b), 25.869(a), 25.899, 25.954, 25.959, 25.1001(a)(b), 25.1301(a), 25.1305, 25.1309, 25.1353 (except (c)), 25.1357(a)(e), 25.1360(a), 25.1385, 25.1387, 25.1389, 25.1391, 25.1393, 25.1395, 25.1397, 25.1401, 25.1403, 25.1431, 25.1438, 25.1525

Plus the following CS 25 paragraphs applicable at Amdt 17:

25.1316, 25.1317

- All weather operations

  JAR AWO change 1 plus:
  - Orange paper AWO 91/1,
  - NPA JAR AWO 3,
  - NPA JAR AWO 8 (IM S-148 - Longitudinal touchdown performance + MABH deletion).

- Airborne Communication, Navigation, Surveillance

  CS-ACNS Initial Issue

  - Subpart B, Section 2 – for optional modifications (Post TC) installing FANS aiming at answering to SES mandate as defined in (EU) N° 29/2009 and amended by (EU) N° 310/2015 of 26 Febuary 2015.

    Note: For compliance to CS-ACNS Subpart B, Section 2, a deviation to CS-ACNS.B.DLS.B1.075 is accepted by DEV ACNS-B-GEN-01 to not include DM89 MONITORING [unit name] [frequency] in the downlink message set installed.

- Subpart D – for optional modifications installing transponders aiming at answering to SES mandate as defined in (EU) No 1207/2011 and amended by (EU) No 1028/2014 of 26 September 2014.
- Subpart E, Section 2 – for RVSM

Additional Airworthiness Requirements (added Post TC):
The following requirements are additionally applicable when an A/C configuration include the subject optional design change(s):

- Certification Requirements

  The following requirements may be considered to certify the following optional designs:

  - CS 25.791 Original issue for symbolic no smoking signs in lavatories
  - CS 25.811 and CS 25.812 Amdt. 3 for multi lingual “EXIT” signs.
  - CS 25.851(a)(c) Amdt 17 for Halon Free Hand Held Fire Extinguishers - Compliance with Commission regulation (EU) N° 744/2010 of 18 August 2010 amending regulation (EC) n° 1005/2009 of the European Parliament and of the Council on substances that deplete the ozone layer, with regard to the critical uses of halon).

3. Special Conditions

Original Special Conditions part of Certification Basis (at time of TC):

- JAA Numbering:

SC A-5	Limit pilot forces and torque
SC E-128	Improved flammability standards for thermal/acoustic insulation
SC F-126	Flight Recorders including Data Link Recording
SC G-105	Resistance to Fire Terminology
SC P-2	Centre of Gravity Control System
SC P-27	Flammability Reduction System
SC P-32	Fuel Tank Safety
SC S-6	Lightning protection indirect effects
SC S-10	Effects of external radiations upon aircraft systems (including S-10.1 and S-10.2)
SC S-13	Autothrust system
SC S-16	Control signal integrity
SC S-18	Electronic flight controls
SC S-20	Emergency electrical power (NPA 25D, F-179)
SC S-21	Brake Wear Limits
SC S-23	Electrical wiring and miscellaneous electrical requirements
SC S-38	Towbarless towing
SC S-148	Longitudinal touchdown performance + MABH deletion

- EASA Numbering:

SC B-01	Stalling and scheduled operating speeds
SC B-02	Electronic Flight Control System (EFCS) Control Surface Awareness
SC B-04	Static Directional, Lateral and Longitudinal Stability and Low Energy Awareness
SC B-05	Flight Envelope Protection
SC B-06	Load Factor Limiting System
SC D-03	Brake Kinetic Energy Capacity

SC E-03 Engine Cowl retention
SC H-01 Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS

Additional Special Conditions part of the Certification Basis (added post TC):
The following Special Conditions are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  SC E-2 Underfloor Crew rest compartment (superseded by SC D-04 for new design)
  SC E-130 Application of heat release and smoke density requirements to seat materials
  SC E-1014 HIC compliance for front row seating (inflatable restraints)
  SC E-1023 Side facing seats with with inflatable restraints
- EASA Numbering:
  SC B-09 Soft go around
  SC D-04 Crew Rest Compartment
  SC D-06 Installation of Three Point restraint & Pre Tensioner System
  SC D-07 Installation of Oblique Seats
  SC D-08 Cabin Attendant Seat mounted on lavatory Door Blade
  SC D-100 Installation of mini suite type seating
  SC D-102 Incorporation of Inertia Locking Device in Dynamic Seats (applicable from January 2019)
  SC F-131 Flight Instrument External Probes – Qualification in Icing Conditions
  SC F-134 Head Up Display Installation
  SC F-137 Security Protection of Aircraft Systems and Networks
  SC F-GEN-01: Installation of non-rechargeable lithium battery (applicable from April 2019)

4. Exemptions

None

5. Deviations

Deviation to Additional Airworthiness Requirements:

- Airborne Communication, Navigation, Surveillance
  ACNS-B-GEN-01 Deviation to CS-ACNS Initial Issue Subpart B, Section 2 (See Note in §II-2)

6. Equivalent Safety Findings

Original Equivalent Safety Findings part of Certification Basis (at time of TC):

- JAA Numbering:
  ESF E-21 Emergency exit marking reflectance
  ESF E-29 Fuselage burn through – aft pressure bulkhead
  ESF E-30 Fuselage burn through – belly fairing
  ESF E-31 Fuselage burn through – bilge area
  ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials
  ESF S-45 Oil temperature indication
- EASA Numbering:
  ESF D-05 Packs off operations
  ESF E-02 Warning Means for RR Engine Fuel Filters
  ESF E-05 Thrust Reverser Testing
  ESF E-10 Fire Extinguishing Agent Concentration
  ESF E-12 RR T7000 – Turbine Overheat Detection
  ESF E-14 RR T7000 engine zone (seals & caps) fire withstanding capability
  ESF E-15 Nacelles areas behind Firewalls
  ESF F-04 Landing light switch

Additional Equivalent Safety Findings part of the Certification Basis (added post TC):
The following Equivalent Safety Findings are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  ESF E-15 Reinforced security cockpit door
  ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis
  ESF S-1066 Cat III Operations - Excess deviation alert
- EASA Numbering:
  ESF B-100 Vibration / buffeting compliance criteria for large external antenna installation
  ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking
  ESF F-128 Minimum Mass Flow of Supplemental Oxygen
  ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System

7. Environmental Protection

7.1 Noise

See TCDSN no. EASA.A.004

7.2 Fuel Venting

CS-34 amendment 1, ICAO Annex 16, Volume II, amendment 08, Part II, chapter II

8. Operational Suitability Data (OSD)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- EASA Approved Operational Suitability Data

9. Extended Range Operations (ETOPS)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
- EASA Approved ETOPS Capability

SECTION 4: A330-800 SERIES (Cont'd)

III. Technical Characteristics and Operational Limitations

1. Type Design Definition

With Rolls Royce (RR) engines
A330-841: 00G000A0841/C00

2. Description

Two turbo-fan, medium to long range, twin-aisle, large category aeroplane.

3. Equipment

Refer to Type Design Definition.

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.

4. Dimensions

- Length: 58,82m (193ft)
- Diameter: 05,64m (18ft 6in)
- Wing Span: 64,00m (210ft)
- Height: 17,38 m (57ft)

5. Engine

5.1 Model

Rolls Royce (RR) engines
A330-841: Two (2) Rolls Royce Trent 7000-72 turbofan engines

5.2 Type Certificate

Rolls Royce (RR) engines
EASA Engine TCDS: EASA.E.036

5.3 Limitations

5.3.1 Installed Engine Limits

Rolls Royce (RR) engines

A/C Model	A330-841
Engine Model	Trent 7000-72
Static thrust at sea level: - take-off (5mn) * - maximum continuous	 72,834 lbs 65,005 lbs

* The take-off rating and the associated operating limitations may be used for up to 10 minutes in the event of an engine failure (see notes in Engine TCDS).

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

5.3.2 Transmission Torque Limits

N/A

6. Fluids (Fuel / Oil / Additives / Hydraulics)

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
RR: (Operating Instruction in RR Manuel F-Trent A330)	JET A, JET A-1, JP5, JP8, N°3 JET fuel, TS-1, RT

The above mentioned fuels are also suitable for the APU .

Refer to Consumable Material List (CML) for details on approved fuel specifications.

6.2 Oil

Refer to the Consumable Material List (CML).

Refer to Engine and APU Manufacturers Operating Instructions.

6.3 Additives

Refer to the Consumable Material List (CML).

6.4 Hydraulics

Refer to the Consumable Material List (CML).

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

		3-TANK AEROPLANE	
		Usable fuel litres (kg)	Unusable fuel litres (kg)
A/C Model	GE	-	All models
	PW	-	
	RR	A330-841	
			Basic
WING TANK		91 300 (73 040)	190 (152)
CENTRE TANK		41 560 (33 248)	83 (67)
TRIM TANK		6 230 (4 984)	6 (5)
TOTAL		139 090 (111 272)	279 (223)

7.2 Oil

Refer to Weight & Balance Manual.

7.3 Coolant system capacity

N/A.

8. Air Speeds Limits

Refer to approved Aeroplane Flight Manual.

9. Rotor Speed Limits

N/A

10. Maximum Operating Altitude and Temperature

10.1 Altitude

Maximum Flight level: 41 450 ft (12 634m)

Maximum Airfield altitude: 8 000 ft (2 438m)

10.2 Temperature

Flight: Minimum: -78°C SAT

Ground: Range: -40°C to +55°C for Take-off and landing

11. Operating Limitations

Refer to approved Aeroplane Flight Manual for maximum demonstrated crosswind.

Wind Speed Limitations:

- Crosswind:	Takeoff:	A/C :	35kt (gust included)
		Engine:	Refer to AFM Limitation section
	Landing:	A/C :	38kt (gust included)
		Engine:	Refer to AFM Limitation section
- Tailwind:	Takeoff:	10kt	
	Landing:	10kt	

12. Maximum Weight

		EIS				
Variant (MOD)		**800** (Basic)	**801** (205427)	**802** (205428)	**803** (205429)	**804** (205430)
Models	GE	-	-	-	-	
	PW	-	-	-	-	
	RR	A330-841	A330-841	A330-841	A330-841	A330-841
MTOW (T)		242	242	238	234	230
MLW (T)		186	186	186	186	186
MZFW (T)		172-176*	172	176	176	176

(*) Linear variation between those weights

13. Centre of Gravity Range

Refer to approved Aeroplane Flight Manual.

14. Datum / Mean Aerodynamic Chord (MAC)

Datum: Station 0.0, located 6,382 meters forward of aeroplane nose.

MAC: 7,270m

15. Levelling Means

Three primary jacking points: Refer to approved Weight and Balance Manual.

16. Minimum Flight Crew

Two (2): Pilot and Co-pilot.

17. Passenger Emergency Exit

Two Passenger Emergency Exit configurations:
- Configuration A-A-I-A: Basic 3 Type A passenger doors and 1 Emergency Exit Type I
- Configuration A-A-A-A: Option 4 Type A passenger doors (MOD 40161)

18. Maximum Passenger Seating Capacity and associated Minimum Number of Cabin Crew

The maximum number of passengers approved for emergency evacuation is:
- 375 Basic (in Configuration A-A-I-A);
- 406 Option (in Configuration A-A-A-A).

See interior layout drawing for the maximum passenger capacities approved for each aeroplane when delivered.

The table below provides the certified Maximum Passenger Seating Capacities (MPSC), the corresponding cabin configuration (exit arrangement and modifications) and the associated minimum numbers of cabin crew members used to demonstrate compliance with the certification requirement:

Maximum Passenger Seating Capacity (MPSC) & Cabin Configuration		Minimum Cabin crew
406	Configuration A-A-A-A (MOD 40161)	9
400	Configuration A-A-A-A (MOD 40161)	8
375	Configuration A-A-I-A (Basic)	8

A lower number of cabin crew may be approved by EASA for specific cabin layouts.

19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)
Forward	18 869
Aft	15 241
Rear (bulk)	3 468

For the positions and the loading conditions authorized in each position (references of containers, pallets and associated weights), see Weight and Balance Manual.

20. Rotor Blade control movement

N/A

21. Auxiliary Power Unit (APU)

One GARRETT (Company name changed to Honeywell International Inc. in 1999):
- GTCP 331-350C (Specification 31-7677A)

22. Life-limited parts

Refer to Airworthiness Limitation Section
See SECTION: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

SECTION 4: A330-800 SERIES (Cont'd)

IV. Operating and Service Instructions

In accordance with EASA Part 21 regulation, Airbus provide on-demand access to the following technical publications to any person required to comply with any of those instructions :

(Access via AirbusWorld portal)

1. Flight Manual (AFM)

   Ref. AFM 33000 (latest published revision)

2. Maintenance Manual

   Refer to Customized Maintenance Manuals published by Airbus (latest published revision)

3. Structural Repair Manual (SRM)

   Refer to Customized SRM published by Airbus (latest published revision)

4. Weight and Balance Manual (W&BM)

   Refer to Customized W&BM published by Airbus (latest published revision)

5. Illustrated Parts Catalogue (IPC)

   Refer to Customized IPC published by Airbus (latest published revision)

6. Service Bulletins (SBs)

   Refer to applicability section of Airbus Service Bulletins (latest published revision)

7. Required Equipment

   The equipment required by the applicable regulation shall be installed.

   Refer also to MMEL – See SECTION: DATA PERTINENT TO ALL MODELS.

SECTION 4: A330-800 SERIES (Cont'd)

V. Notes

1. All Weather Capability

A/C Model	RR Engines
	A330-841 - -
Type Design Capability	Cat 1 manual ILS CAT I approach using Raw Data
Option Capability (MOD)	-

2. Conversions between Models

N/A

3. Change of Weight Variants

N/A

SECTION 5: A330-900 SERIES

I. General

1. Type / Model

1.1 Type

A330

1.2 Model

A330-941

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

EASA

4.2 Application Date

A330-941: 25 July 2014

4.3 State of Design Authority Type Certificate Date

A330-941: 26 September 2018

5. EASA Type Certification Date

5.1 State of Design Authority

EASA

5.2 Application Date

A330-941: 25 July 2014

5.3 State of Design Authority Type Certificate Date

A330-941: 26 September 2018

SECTION 5: A330-900 SERIES (Cont'd)

II. Certification Basis

1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 25 July 2014

2. Airworthiness Requirements

Original Airworthiness Requirements (at time of TC):

- Certification Requirements

JAR 25 Change 13 effective on October 5, 1989 except as follows:

- JAR 25.561 is applied at change 12 for wing tanks outside the fuselage contour;
- For showing compliance with JAR 25.785(a)(b)(c), the front row seats located behind a bulkhead are not tested according to JAR 25.562(c)(5)(6). Instead, a minimum 35 inches distance between the seats and the bulkhead is considered as an acceptable alternative.

With the following JAR 25 paragraphs applicable at change 14:

25.307 (except (a)), 25.335(f), 25.345(c), 25.361, 25.371, 25.395, 25.397, 25.459, 25.571, 25.603 (applicable to vertical stabilizer only), 25.613 (applicable to vertical stabilizer only), 25.615 (applicable to vertical stabilizer only), 25.679, 25.723, 25.729, 25.731, 25.733, 25.735, 25.772, 25.777, 25.779(a), 25.783, 25.851, 25.855(a)(b)(c)(d)(e), 25.863, 25.867, 25X899 (applicable to vertical stabilizer only), 25.963(g) (applicable to fuel centre tank only), 25.979, 25.1303, 25.1381, 25.1415, 25.1543

Plus the following CS 25 paragraphs applicable at Amdt 2

25.021, 25.103(b), 25.105(a), 25.111(c), 25.119, 25.121 (except (a)), 25.123(b), 25.125, 25.207, 25.237, 25.253, 25.1419

Plus the following CS 25 paragraphs applicable at Amdt 13

25.963(e) (Fuel Tank Access Covers) with 25.963(e)(1) including the design features as per E-16 in the Annex to this TCDS.

Note: Any change or repair that would decrease the safety level of the E-16 design features would lead to the application of CS 25.963(e)(1) at amendment 15 or higher.

Plus the following CS 25 paragraphs applicable at Amdt 15 (applicable at the reference date)

25.023, 25.025, 25.027, 25.029, 25.031, 25.101, 25.103 (except (b)), 25.105 (except (a)), 25.107 (except (h)), 25.109, 25.111 (except (c)), 25.113, 25.115, 25.117, 25.121(a), 25.123 (except (b)), 25.143 (except (c)(i)(j)(l)), 25.145, 25.147, 25.149, 25.161, 25.171, 25.173, 25.175, 25.177, 25.181, 25.201, 25.203, 25.231, 25.233, 25.235, 25.251, 25.253 (except (c)), 25.255, 25.301, 25.302, 25.303, 25.305, 25.307(a), 25.321, 25.331, 25.333, 25.335 (except (f)), 25.337, 25.341, 25.343, 25.345 (except (c)), 25.349, 25.351, 25.365 (except (e),(f),(g)), 25.367, 25.373, 25.391, 25.393, 25.415, 25.427, 25.457, 25.471(b), 25.473, 25.479, 25.481(except (b)), 25.483, 25.485, 25.489, 25.491, 25.493, 25.495, 25.499, 25.503, 25.507, 25.509, 25.511, 25.519, 25.561(c) (applicable to large items of masses only), 25.571, 25.619, 25.625, 25.629, 25.631, 25.683(b), 25.773(b), 25.777(i), 25.809(g) (applicable to Door 3 panelization area only), 25.843(a), 25.901(c), 25.963(a), 25.963(d1)

(applicable to fuel centre tank only), 25.1001(a)(b)(c) , 25.1323(c)(d), 25.1325(e), 25.1337, 25.1355, 25.1383, 25.1501, 25.1503, 25.1505, 25.1507, 25.1511, 25.1513, 25.1515, 25.1516, 25.1517, 25.1519, 25.1531, 25.1533, 25.1535, 25.1581, 25.1583, 25.1585, 25.1587, 25.1591

Plus the following CS 25 paragraphs applicable at Amdt 15 related to engine installation:
(New Engine, Pylon, pre-cooler, air inlet and nacelle, Structural adaptation of the wing at the wing/pylon interface, Electro Pneumatic Bleed Air System)

25.301, 25.303, 25.307, 25.361(a), 25.362, 25.363, 25.365(e1),25.371, 25.561(c), 25.571, 25.581, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.621, 25.625, 25.631, 25.721 (except (a)), 25.723(b), 25.771(e), 25.779(b), 25.851 (except (a)), 25.856(a), 25.863, 25.865, 25.867, 25.869(a), 25.899, 25.901, 25.903, 25.933, 25.934, 25.939, 25.943, 25.951, 25.952, 25.954, 25.955(a), 25.959, 25.961, 25.963(d5), 25.981(a), 25.993 (except (f)), 25.994, 25.995, 25.997, 25.999, 25.1001(a)(b), 25.1011, 25.1013, 25.1015, 25.1017, 25.1019, 25.1021, 25.1023, 25.1025, 25.1041, 25.1043, 25.1045, 25.1091, 25.1093, 25.1103, 25.1121, 25.1123, 25.1141, 25.1143, 25.1145, 25.1155, 25.1163, 25.1165, 25.1167, 25.1181, 25.1182, 25.1183, 25.1185, 25.1187, 25.1189 (except (c),(f),(g),(h)), 25.1191, 25.1193, 25.1195, 25.1197, 25.1199, 25.1201, 25.1203, 25.1207, 25.1301, 25.1305, 25.1309, 25.1315, 25.1321(d), 25.1351 (except (a),(c)), 25.1353 (except (c)), 25.1357(a)(d)(e), 25.1360(a), 25.1431, 25.1435(a), 25.1438, 25.1461, 25.1521, 25.1527, 25.1549, 25.1551, 25.1557(b), 25.1593, 25.1701, 25.1703 (except (c)), 25.1705, 25.1707, 25.1709, 25.1711, 25.1713, 25.1715, 25.1717, 25.1719, 25.1721 (except (c)), 25.1723, 25.1725, 25.1727, 25.1731

Plus the following CS 25 paragraphs applicable at Amdt 15 related to aerodynamic changes:
(New winglet with wing span increase, Wing Aerodynamic clean up, Wing twist change, Wing engine interference, new navigation and strobe lights)

25.301, 25.303, 25.307, 25.445, 25.571 (except (e4)), 25.581, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.625, 25.631, 25.683(b), 25.723(b), 25.863(a)(b), 25.869(a), 25.899, 25.954, 25.959, 25.1001(a)(b), 25.1301(a), 25.1305, 25.1309, 25.1353 (except (c)), 25.1357(a)(e), 25.1360(a), 25.1385, 25.1387, 25.1389, 25.1391, 25.1393, 25.1395, 25.1397, 25.1401, 25.1403, 25.1431, 25.1438, 25.1525

Plus the following CS 25 paragraphs applicable at Amdt 17:

25.1316, 25.1317

- All weather operations

  JAR AWO change 1 plus:
  - Orange paper AWO 91/1,
  - NPA JAR AWO 3,
  - NPA JAR AWO 8 (IM S-148 - Longitudinal touchdown performance + MABH deletion).

- Airborne Communication, Navigation, Surveillance

  CS-ACNS Initial Issue

  - Subpart B, Section 2 – for optional modifications (Post TC) installing FANS aiming at answering to SES mandate as defined in (EU) N° 29/2009 and amended by (EU) N° 310/2015 of 26 Febuary 2015.

    Note: For compliance to CS-ACNS Subpart B, Section 2, a deviation to CS-ACNS.B.DLS.B1.075 is accepted by DEV ACNS-B-GEN-01 to not include DM89 MONITORING [unit name] [frequency] in the downlink message set installed.

  - Subpart D – for optional modifications installing transponders aiming at answering to SES mandate as defined in (EU) No 1207/2011 and amended by (EU) No 1028/2014 of 26 September 2014.
  - Subpart E, Section 2 – for RVSM

Additional Airworthiness Requirements (added Post TC):
The following requirements are additionally applicable when an A/C configuration include the subject optional design change(s):

- Certification Requirements

  The following requirements may be considered to certify the following optional designs:

  - CS 25.791 Original issue for symbolic no smoking signs in lavatories
  - CS 25.811 and CS 25.812 Amdt. 3 for multi lingual “EXIT” signs.
  - CS 25.851(a)(c) Amdt 17 for Halon Free Hand Held Fire Extinguishers - Compliance with Commission regulation (EU) N° 744/2010 of 18 August 2010 amending regulation (EC) n° 1005/2009 of the European Parliament and of the Council on substances that deplete the ozone layer, with regard to the critical uses of halon).

3. Special Conditions

Original Special Conditions part of Certification Basis (at time of TC):

- JAA Numbering:
  - SC A-5 Limit pilot forces and torque
  - SC E-128 Improved flammability standards for thermal/acoustic insulation
  - SC F-126 Flight Recorders including Data Link Recording
  - SC G-105 Resistance to Fire Terminology
  - SC P-2 Centre of Gravity Control System
  - SC P-27 Flammability Reduction System
  - SC P-32 Fuel Tank Safety
  - SC S-6 Lightning protection indirect effects
  - SC S-10 Effects of external radiations upon aircraft systems (including S-10.1 and S-10.2)
  - SC S-13 Autothrust system
  - SC S-16 Control signal integrity
  - SC S-18 Electronic flight controls
  - SC S-20 Emergency electrical power (NPA 25D, F-179)
  - SC S-21 Brake Wear Limits
  - SC S-23 Electrical wiring and miscellaneous electrical requirements
  - SC S-38 Towbarless towing
  - SC S-148 Longitudinal touchdown performance + MABH deletion
- EASA Numbering:
  - SC B-01 Stalling and scheduled operating speeds
  - SC B-02 Electronic Flight Control System (EFCS) Control Surface Awareness
  - SC B-04 Static Directional, Lateral and Longitudinal Stability and Low Energy Awareness
  - SC B-05 Flight Envelope Protection
  - SC B-06 Load Factor Limiting System
  - SC D-03 Brake Kinetic Energy Capacity
  - SC E-03 Engine Cowl retention
  - SC H-01 Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS

Additional Special Conditions part of the Certification Basis (added post TC):

The following Special Conditions are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  - SC E-2 Underfloor Crew rest compartment (superseded by SC D-04 for new design)
  - SC E-130 Application of heat release and smoke density requirements to seat materials
  - SC E-1014 HIC compliance for front row seating (inflatable restraints)
  - SC E-1023 Side facing seats with with inflatable restraints
- EASA Numbering:
  - SC B-09 Soft go around
  - SC D-04 Crew Rest Compartment
  - SC D-06 Installation of Three Point restraint & Pre Tensioner System
  - SC D-07 Installation of Oblique Seats
  - SC D-08 Cabin Attendant Seat mounted on lavatory Door Blade
  - SC D-100 Installation of mini suite type seating
  - SC D-102 Incorporation of Inertia Locking Device in Dynamic Seats (applicable from January 2019)
  - SC F-131 Flight Instrument External Probes – Qualification in Icing Conditions
  - SC F-134 Head Up Display Installation
  - SC F-137 Security Protection of Aircraft Systems and Networks
  - SC F-GEN-01: Installation of non-rechargeable lithium battery (applicable from April 2019)

4. Exemptions

None

5. Deviations

Deviation to Additional Airworthiness Requirements (added Post TC):

- Airborne Communication, Navigation, Surveillance
  - ACNS-B-GEN-01 Deviation to CS-ACNS Initial Issue Subpart B, Section 2 (See Note in §II-2)

6. Equivalent Safety Findings

Original Equivalent Safety Findings part of Certification Basis (at time of TC):

- JAA Numbering:
  ESF E-21 Emergency exit marking reflectance
  ESF E-29 Fuselage burn through – aft pressure bulkhead
  ESF E-30 Fuselage burn through – belly fairing
  ESF E-31 Fuselage burn through – bilge area
  ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials
  ESF S-45 Oil temperature indication
- EASA Numbering:
  ESF D-05 Packs off operations
  ESF E-02 Warning Means for RR Engine Fuel Filters
  ESF E-05 Thrust Reverser Testing
  ESF E-10 Fire Extinguishing Agent Concentration
  ESF E-12 RR T7000 – Turbine Overheat Detection
  ESF E-14 RR T7000 engine zone (seals & caps) fire withstanding capability
  ESF E-15 Nacelles areas behind Firewalls
  ESF F-04 Landing light switch

Additional Equivalent Safety Findings part of the Certification Basis (added post TC):
The following Equivalent Safety Findings are additionally applicable when an A/C configuration include the subject optional design change(s):

- JAA Numbering:
  ESF E-15 Reinforced security cockpit door
  ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis
  ESF S-1066 Cat III Operations - Excess deviation alert
- EASA Numbering:
  ESF B-100 Vibration / buffeting compliance criteria for large external antenna installation
  ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking
  ESF F-128 Minimum Mass Flow of Supplemental Oxygen
  ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System

7. Environmental Protection

7.1 Noise

See TCDSN no. EASA.A.004

7.2 Fuel Venting

CS-34 amendment 1, ICAO Annex 16, Volume II, amendment 07, Part II, chapter II

8. Operational Suitability Data (OSD)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- EASA Approved Operational Suitability Data
-

9. Extended Range Operations (ETOPS)

See SECTION: DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
- EASA Approved ETOPS Capability

SECTION 5: A330-900 SERIES (Cont'd)

III. Technical Characteristics and Operational Limitations

1. Type Design Definition

With Rolls Royce (RR) engines

A330-941: 00G000A0941/C00

2. Description

Two turbo-fan, medium to long range, twin-aisle, large category aeroplane.

3. Equipment

Refer to Type Design Definition.

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.

4. Dimensions

- Length: 63,66m (208ft 10in)
- Diameter: 05,64m (18ft 6in)
- Wing Span: 64,00m (210ft)
- Height: 16,79 m (55ft 1in)
-

5. Engine

5.1 Model

Rolls Royce (RR) engines

A330-941: Two (2) Rolls Royce Trent 7000-72 turbofan engines

5.2 Type Certificate

Rolls Royce (RR) engines

EASA Engine TCDS: EASA.E.036

5.3 Limitations

5.3.1 Installed Engine Limits

Rolls Royce (RR) engines

A/C Model	A330-941
Engine Model	Trent 7000-72
Static thrust at sea level: - take-off (5mn) * - maximum continuous	 72,834 lbs 65,005 lbs

* The take-off rating and the associated operating limitations may be used for up to 10 minutes in the event of an engine failure (see notes in Engine TCDS).

Other engine limitations: See the relevant Engine Type Certificate Data Sheet.

5.3.2 Transmission Torque Limits

N/A

6. Fluids (Fuel / Oil / Additives / Hydraulics)

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
RR: (Operating Instruction in RR Manuel F-Trent A330)	JET A, JET A-1, JP5, JP8, N°3 JET fuel, TS-1, RT

The above mentioned fuels are also suitable for the APU .

Refer to Consumable Material List (CML) for details on approved fuel specifications.

6.2 Oil

Refer to the Consumable Material List (CML).

Refer to Engine and APU Manufacturers Operating Instructions.

6.3 Additives

Refer to the Consumable Material List (CML).

6.4 Hydraulics

Refer to the Consumable Material List (CML).

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

		3-TANK AEROPLANE	
		Usable fuel litres (kg)	Unusable fuel litres (kg)
A/C Model	GE	-	All models
	PW	-	
	RR	A330-941	
			Basic
WING TANK		91 300 (73 040)	190 (152)
CENTRE TANK		41 560 (33 248)	83 (67)
TRIM TANK		6 230 (4 984)	6 (5)
TOTAL		139 090 (111 272)	279 (223)

7.2 Oil

Refer to Weight & Balance Manual.

7.3 Coolant system capacity

N/A.

8. Air Speeds Limits

Refer to approved Aeroplane Flight Manual.

9. Rotor Speed Limits

N/A

10. Maximum Operating Altitude and Temperature

10.1 Altitude

Maximum Flight level: 41 450 ft (12 634m)

Maximum Airfield altitude: 8 000 ft (2 438m)

10.2 Temperature

Flight: Minimum: -78°C SAT

Ground: Range: -40°C to +55°C for Take-off and landing

11. Operating Limitations

Refer to approved Aeroplane Flight Manual for maximum demonstrated crosswind.

Wind Speed Limitations:

- Crosswind:	Takeoff:	A/C :	30kt (gust included)
		Engine:	Refer to AFM Limitation section
	Landing:	A/C :	35kt (gust included)
		Engine:	Refer to AFM Limitation section
- Tailwind:	Takeoff:	10kt (15kt with MOD 205376)	
	Landing:	10kt (15kt with MOD 205377)	

12. Maximum Weight

		EIS				
Variant (MOD)		**900** (Basic)	**901** (205432)	**902** (205433)	**903** (205434)	**904** (205435)
Models	GE	-	-	-	-	
	PW	-	-	-	-	
	RR	A330-941	A330-941	A330-941	A330-941	A330-941
MTOW (T)		242	242	238	234	230
MLW (T)		191	191	191	191	191
MZFW (T)		177-181*	177	181	181	181

(*) Linear variation between those weights

13. Centre of Gravity Range

Refer to approved Aeroplane Flight Manual.

14. Datum / Mean Aerodynamic Chord (MAC)

Datum: Station 0.0, located 6,382 meters forward of aeroplane nose.

MAC: 7,270m

15. Levelling Means

Three primary jacking points: Refer to approved Weight and Balance Manual.

16. Minimum Flight Crew

Two (2): Pilot and Co-pilot.

17. Passenger Emergency Exit

Two Passenger Emergency Exit configurations:
- Configuration A-A-I-A: Basic 3 Type A passenger doors and 1 Emergency Exit Type I
- Configuration A-A-A-A: Option 4 Type A passenger doors (MOD 40161)

18. Maximum Passenger Seating Capacity and associated Minimum Number of Cabin Crew

The maximum number of passengers approved for emergency evacuation is:
- 375 Basic (in Configuration A-A-I-A);
- 440 Option (in Configuration A-A-A-A).

See interior layout drawing for the maximum passenger capacities approved for each aeroplane when delivered.

The table below provides the certified Maximum Passenger Seating Capacities (MPSC), the corresponding cabin configuration (exit arrangement and modifications) and the associated minimum numbers of cabin crew members used to demonstrate compliance with the certification requirement:

Maximum Passenger Seating Capacity (MPSC) & Cabin Configuration		Minimum Cabin crew
440	Configuration A-A-A-A (MOD 40161)	9
400	Configuration A-A-A-A (MOD 40161)	8
375	Configuration A-A-I-A (Basic)	8

A lower number of cabin crew may be approved by EASA for specific cabin layouts.

19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)
Forward	22861
Aft	18507
Rear (bulk)	3468

For the positions and the loading conditions authorized in each position (references of containers, pallets and associated weights), see Weight and Balance Manual.

20. Rotor Blade control movement

N/A

21. Auxiliary Power Unit (APU)

One GARRETT (Company name changed to Honeywell International Inc. in 1999):
- GTCP 331-350C (Specification 31-7677A)

22. Life-limited parts

Refer to Airworthiness Limitation Section
See SECTION: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

SECTION 5: A330-900 SERIES – Cont'd

IV. Operating and Service Instructions

In accordance with EASA Part 21 regulation, Airbus provide on-demand access to the following technical publications to any person required to comply with any of those instructions :

(Access via AirbusWorld portal)

1. Flight Manual (AFM)

   Ref. AFM 33000 (latest published revision)

2. Maintenance Manual

   Refer to Customized Maintenance Manuals published by Airbus (latest published revision)

3. Structural Repair Manual (SRM)

   Refer to Customized SRM published by Airbus (latest published revision)

4. Weight and Balance Manual (W&BM)

   Refer to Customized W&BM published by Airbus (latest published revision)

5. Illustrated Parts Catalogue (IPC)

   Refer to Customized IPC published by Airbus (latest published revision)

6. Service Bulletins (SBs)

   Refer to applicability section of Airbus Service Bulletins (latest published revision)

7. Required Equipment

   The equipment required by the applicable regulation shall be installed.

   Refer also to MMEL – See SECTION: DATA PERTINENT TO ALL MODELS.

SECTION 5: A330-900 SERIES – Cont'd

V. Notes

1. All Weather Capability

A/C Model	RR Engines
	A330-941 - -
Type Design Capability	Cat 1 manual ILS CAT I approach using Raw Data
Option Capability (MOD)	Cat 3 Precision approach and autoland (206292)

2. Conversions between Models

N/A

3. Change of Weight Variants

N/A

SECTION: DATA PERTINENT TO ALL MODELS

The below information is applicable to all models unless specifically mentioned:

1. Maintenance Instructions and Airworthiness Limitations

The following initial minimum maintenance requirements and their frequencies shall be used in the development of an approved maintenance programme for the aircraft:

Applicable Document Reference:

A330-200/-300/-800/-900 series
- A330 Maintenance Review Board Report (latest published revision)

A330-700L serie
- A330-700L Maintenance Requirements Document (latest published revision)
- A330-700L Maintenance Requirements Document Supplement for Courier Area ref MRD-S dated 1st of November 2019 (or later approved revision)

The following Airworthiness Limitations Sections (ALS) apply:

- **ALS PART 1: SAFE LIFE AIRWORTHINESS LIMITATION ITEMS (SL ALI)**
  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;
  Applicable Document Reference:
  - Ref: A330 ALS Part 1 (latest published revision)
  - Ref: A330 ALS Part 1 Variations (latest published set of variations)
- **ALS PART 2: DAMAGE TOLERANCE AIRWORTHINESS LIMITATION ITEMS (DT ALI)**
  Limitations applicable to Damage Tolerant Airworthiness Limitation Items are provided in the A330 Airworthiness Limitations Section (ALS) Part 2 approved by EASA;
  Applicable Document Reference:
  - Ref: A330 ALS Part 2 (latest published revision)
  - Ref: A330 ALS Part 2 Variations (latest published set of variations)
- **ALS PART 3: CERTIFICATION MAINTENANCE REQUIREMENTS (CMR)**
  Certification Maintenance Requirements are provided in the A330 Airworthiness Limitations Section (ALS) Part 3 approved by EASA;
  Applicable Document Reference:
  - Ref: A330 ALS Part 3 (latest published revision)
  - Ref: A330 ALS Part 3 Variations (latest published set of variations)
- **ALS PART 4: AGEING SYSTEMS MAINTENANCE (ASM)**
  Limitations applicable to Ageing System Maintenance are provided in the A330 Airworthiness Limitation Section (ALS) Part 4 approved by EASA;
  Applicable Document Reference:
  - Ref: A330 ALS Part 4 (latest published revision)
  - Ref: A330 ALS Part 4 Variations (latest published set of variations)
- **ALS PART 5: FUEL AIRWORTHINESS LIMITATIONS (FAL)**
  Fuel Airworthiness Limitations are provided in the A330 Airworthiness Limitations Section (ALS) Part 5 approved by EASA;
  Applicable Document Reference:
  - Ref: A330 ALS Part 5 (latest published revision)
  - Ref: A330 ALS Part 5 Variations (latest published set of variations)

2. Operational Suitability Data (OSD)

The Operational Suitability Requirements and Data listed below are applicable to all A330 models:

2.1 Flight Crew Data (FCD)

- Operational Suitability Requirements:

  CS-FCD Initial Issue

- Operational Suitability Data approved by EASA:

  Required for Entry into Service by EU operator.

  All Models: FCD Ref. V01RP1505446 Issue 1 dated 11th of December 2015 (or later approved revisions)

  A330-743L only: FCD Ref. G01RP1919857 Issue 1.2 dated 9th of October 2019 (or later approved revisions)

  All A330 and A350 aircraft models are assigned a single licence endorsement and share the same A330/350 type rating. Variants within the A330/350 type rating are defined in the Flight Crew Data report reference V01RP1505446.

2.2 Cabin Crew Data (CCD)

- Operational Suitability Requirements:

  SC A-01-CCD OSD Cabin Crew Data (CCD) Certification Basis
  SC CCD-01 Determination of Certification Basis for changes to A330 CCD

- Operational Suitability Data approved by EASA:

  Required for Entry into Service by EU operator (Passenger Models only).

  All Models: CCD Ref. LR01RP1534111 Issue 1 dated 16th November 2015 (or later approved revisions)

  A330-200F/-700L: No Cabin Crew Data required

  A330-200/-300/-800/-900 series are one and the same aircraft for cabin crew.

  The A330-200/-300/-800/-900 is a variant within the A330/A340/A350 aircraft type for cabin crew.

2.3 Master Minumum Equipment List (MMEL)

- Operational Suitability Requirements:

  JAR MMEL / MEL Subpart B amendment 1

- Operational Suitability Data approved by EASA:

  Required for Entry into Service by EU operator

  All Models: MMEL Ref. MMEL STL 33100 dated November 2015 (or later approved revisions)

  A330-700L: MMEL-Supplement Ref. MMEL-S MOD CJ1970 dated 1st August 2019 (or later approved revisions)

3. Extended Range Operations (ETOPS)

3.1 ETOPS Technical Conditions

A/C Model	A330-300 All WV (Except WV 080)						A330-300 WV 050 + WV052 WV 08x + Centre Tank Activated		
	A330-301 - -	A330-321 A330-322 -	A330-341 A330-342 -	- A330-302 A330-303	- - A330-323	- - A330-343	- A330-302 A330-303	- - A330-323	- A330-342 A330-343
Defined in	JAA CRI G-6 (up to 180min) EASA CRI G-8 (beyond 180min)			JAA CRI G-106 (up to 180min) EASA CRI G-8 (beyond 180min)			EASA CRI G-8 (up to and beyond 180min)		
Technical Conditions	AMC 20-6 (AMJ 120-42 / IL 20)						AMC 20-6 Rev 1		

A/C Model	A330-200			A330-200F		
	A330-201 A330-202 A330-203	- - A330-223	- - A330-243	- - -	- - A330-223F	- - A330-243F
Defined in	JAA CRI G-106 (up to 180min) EASA CRI G-8 (beyond 180min)			EASA CRI G-106F (up to 180min)		
Technical Conditions	AMC 20-6 (AMJ 120-42 / IL 20)			AMC 20-6 Rev 1		

A/C Model	A330-900			A330-800		
	- - -	- - -	A330-941 - -	- - -	- - -	A330-841 - -
Defined in	CS 25.1535 Amdt 15 (up to and beyond 180min)			CS 25.1535 Amdt 15 (up to and beyond 180min)		
Technical Conditions	AMC 20-6 Rev 2			AMC 20-6 Rev 2		

A/C Model	A330-700L			-		
	- - -	- - -	A330-743L - -	- - -	- - -	- - -
Defined in	No ETOPS approval for A330-700L is granted initially.			-		
Technical Conditions	No ETOPS approval for A330-700L is granted initially.			-		

3.2 EASA Approved ETOPS Capability

The Type Design, system reliability and performance of below listed A330 models were found capable for Extended Range Operations when configured, maintained and operated in accordance with the latest published revision of the ETOPS Configuration, Maintenance and Procedures (CMP) document, LR2/EASA: AMC 20-6/CMP.

This finding does not constitute an approval to conduct Extended Range Operations (operational approval must be obtained from the responsible Authority).

The following table provides details on the ETOPS approvals.

A/C Model	Engine Type	Approval Date		
		ETOPS 120 Min	ETOPS 180 Min	ETOPS Beyond 180 Min*
A330-200 SERIES				
A330-201	GE CF6-80E1A2	-	19 November 2002	13 October 2009
A330-202	GE CF6-80E1A4	-	27 April 1998	13 October 2009
A330-203	GE CF6-80E1A3	-	30 November 2001	13 October 2009
A330-223	PW 4168A	-	13 July 1998	13 October 2009
	PW 4168A-1D	-	04 June 2009	13 October 2009
	PW 4170	-	04 June 2009	13 October 2009
A330-223F	PW 4170	-	09 July 2010	-
	PW 4168A-1D	-	10 April 2012	-
	Intermix PW 4168A / PW 4168A-1D	-	May 2013	-
A330-243	RR Trent 772B-60	-	03 February 1999	13 October 2009
	RR Trent 772C-60	-	19 April 2006	13 October 2009
A330-243F	RR Trent 772B-60	-	09 July 2010	-
A330-300 SERIES				
A330-301	GE CF6-80E1A2	29 April 1994	06 February 1995	13 October 2009
A330-302	GE CF6-80E1A2	-	-	11 December 2014
	GE CF6-80E1A4	-	17 June 2004	13 October 2009
A330-303	GE CF6-80E1A3	-	17 June 2004	13 October 2009
A330-321	PW 4164	06 February 1995	04 August 1995	13 October 2009
	PW 4164-1D	-	-	04 February 2011
A330-322	PW 4168	06 February 1995	04 August 1995	13 October 2009
	PW 4168-1D	-	-	04 February 2011
A330-323	PW 4164-1D	-	-	11 December 2014
	PW 4168A	-	22 April 1999	13 October 2009
	PW 4168A-1D	-	04 June 2009	13 October 2009
	PW 4170	-	04 June 2009	13 October 2009
A330-341	RR Trent 768-60	15 December 1995	17 June 1996	13 October 2009
A330-342	RR Trent 772-60	15 December 1995	17 June 1996	13 October 2009
A330-343	RR Trent 768-60	-	-	11 December 2014
	RR Trent 772B-60	-	21 October 1999	13 October 2009
	RR Trent 772C-60	-	20 April 2006	13 October 2009
A330-700L SERIES				
A330-743L	RR Trent 772B-60	-	-	-
A330-800 SERIES				
A330-841	RR Trent 7000-72	-	12 February 2020	02 April 2020
A330-900 SERIES				
A330-941	RR Trent 7000-72	-	14 November 2018	24 January 2019

(*) Refer to AFM and ETOPS CMP document for maximum diversion time/distance.

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

A/C	Aircraft
AFM	Aeroplane Flight Manual
ALS	Airworthiness Limitation Section
AMC	Acceptable Means of Compliance
APU	Auxiliary Power Unit
AWO	All Weather Operations
CAA	Civil Aviation Authority
CCD	Cabin Crew Data
CRI	Certification Review Item
CS	Certification Specification
DGAC	Direction Générale de l'Aviation Civile (French NAA)
EASA	European Union Aviation Safety Agency
EC	European Commission
EIS	Entry Into Service
ESF	Equivalent Safety Finding
ETOPS	Extended Range Operations (with Two-Engined Aeroplanes)
EU	European Union
EU MS	European Union Member States
EWIS	Electrical Wiring Interconnection System
FCD	Flight Crew Data
GE	General Electrics
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
FRS	Flammability Reduction Systems
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
JAA	Joint Aviation Authorities
JAR	Joint Aviation Requirements
MSN	Manufacturer Serial Number
MMEL	Master Minimum Equiment List
MLW	Maximum Landing Weight
MTOW	Maximum Take-Off Weight
MZFW	Maximum Zero Fuel Weight
NAA	National Aviation Authority
NPA	Notice of Proposed Amendment
OSD	Operational Suitability Data
PW	Pratt & Whithney
RR	Rolls Royce
SB	Service Bulletin
SC	Special Condition
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
WV	Weight Variant

II. Type Certificate Holder Record

AIRBUS
2 Rond-Point Emile Dewoitine
31700 Blagnac
France

III. Change Record

Starting from Issue 18

Issue	Date	Changes	TC issue
18.0	27/11/09	Page 4 Section 1.6 – Update of CMP Document reference number – Introduction of ETOPS Beyond 180 Min (approval date: 13 October 2009) – Amendment Approval date 4 June 2009 for ETOPS 180 Min (A330-323 PW 4168A-1D and PW 4168A-1D) Page 6 Section 2.II.6 – Environmental Standards chapter re-arrangement Page 6 Section 2.II.7 & 2.II.8.2 – New Chapter title – Addition of CRI G-106 (2.II.7 only) – Addition of CRI G-8 Page 11 Section 2.III.3.2.1 – Introduction of reference to Approved Oil documentation Page 14 Section 2.III.4.12 – Introduction of reference to ALS 5, and deletion of Certification Document reference numbers Page 17 Section 3.II.7 – Environmental Standards chapter re-arrangement Page 17 Section 3.II.8 – Addition of CRI G-8 Page 21 Section 3.III.2.6 – Mod number corrected (Variant 060) Page 22 Section 3.III.3.2.1 – Introduction of reference to Approved Oil documentation Page 25 Section 3.III.4.12 – Introduction of reference to ALS 5, and deletion of Certification Document reference numbers Page 26 – Introduction of new Section 4 (Change Record)	17/05/04
19.0	30/03/10	Introduction of section 4 for A330-200 Freighter	09/04/10
20.0	11/06/10	Addition of SC H-01 as Special Condition (Enhanced Airworthiness Programme for Aeroplane Systems - ICA for EWIS)	09/04/10
21.0	22/06/10	Addition of WV 001 for A330-200 Freighter	09/04/10
22.0	20/07/10	Addition of A330-200F ETOPS approval Addition of WV 061 for A330-200 passenger aircraft	09/04/10
23.0	18/07/10	Addition of WV 057 and 058 on the A330-200 Passenger aircraft. Addition of fuel quantity table (Section 4 § 3.1.2) due to the introduction of MOD 58623 & 200281. Correction of typo error for fuel quantity tables (section 3 § 4.1 & Section 4 § 3.1.1).	09/04/10
24.0	06/09/10	Correction of a typo error on Section 1 - § 6 - ETOPS table	09/04/10

Issue	Date	Changes	TC issue
25.0	27/09/10	Correction of typo error to remove ambiguity on A330-200 Freighter model (Section 4 - §1.1)	09/04/10
26.0	17/01/11	Addition of WV 057 and 058 on the A330-243 Passenger aircraft (RR models). Addition of WV 002 on the A330-200F. Addition of Special condition P27 for A330-200 and A330-300 Passenger aircraft.	09/04/10
27.0	23/02/11	Addition of RT Fuel for use on GE, PW and RR engines and APU Addition of PW 4164-1D and PW4168-1D engines (MOD 58777 and 58776)	09/04/10
28.0	09/03/11	Correction of static take-off thrust (5 mn) number for A330-203 New Paragraph 3.III.4.13 Fuel tank flammability Reduction System (FRS) Update of Paragraph 6 in Section 2 and 3 (Environmental Requirements for Noise)	09/04/10
29.0	06/05/11	Addition of MOD 201436 to Variant 057 and addition of MOD 201437 to Variant 058 in Maximum Certified Weights for A330-201/-202/-203/-223/-243: Addition of PW4164-1D and PW4168-1D in the ETOPS table as a result of previous certification of MOD 58776 and 58777	09/04/10
30.0	26/10/11	Addition of Variant 054 in Maximum Certified Weights for A330-302/-303/-323/-342/-343 (Section 2.III.1.6, 2.III.2.6 and 2.III.3.6)	09/04/10
31.0	04/05/12	Removal of SC P-27 Flammability Reduction System from A330-300 Certification Basis Addition of SC E-130 and E-1014 to A330-300/-200 Certification Basis Addition of Weight Variants 054 and 055 for A330-302/-303/ -323/-342/-343 Addition of Weight Variant 062 for A330-201/-202/-203/-223/ -243 Correction Section 3.III.1.7: Service Bulletin 72-3003 was erroneously listed as 72-003 Addition of PW4168A-1D Engine for A330-223F (Section 4.III.1.2.1.)	09/04/10
32.0	29/10/12	Addition of SC E-128 to A330-300/-200 Certification Basis Addition of Weight Variant 056 for A330-302/-303/-323/-342/-343 Correction of MOD number (43308) for A330-301 Weight Variant 010	09/04/10
33.0	14/11/12	Addition of Equivalent Safety Finding E-1022 to A330-300/-200 Certification Basis	09/04/10
34	28/05/13	Addition of paragraph “Elect to comply” for A330-200/-200F/-300. After certification of MOD 200542 on Symbolic Exit Sign, the TCDS need to reflect the compliance with CS 25.811 and CS 25.812 Amdt. 3 Installation of one PW 4168A engine on A330-223F aircraft basically fitted with two PW4168A-1D Addition of PW4168A-1D and Intermix PW4168A/4168A-1D for A330-223F on Section 1 §6 reflecting ETOPS capabilities and approval of LR2/EASA: AMC 20-6 CMP Revision 25.	09/04/10
35	20/11/13	Addition of WV057 for A330-323/-342/-343	09/04/10
36	22/11/13	Correction of a typo in section 2 §2.6 on MTOW of WV057 for A330-223. 184t instead of 187t	09/04/10
37	15/09/14	Addition of WV058 for A330-342/-343 Addition of ESF E-134 and SC F-126 for A330-200/-200F/-300 Rewording of A330-200F Certification basis	09/04/10
38	11/12/14	Addition of GE CF6-80E1A2 on A330-302 Addition of PW 4164-1D on A330-323 Addition of RR Trent 768-60 on A330-343 Addition of WVs 030, 031, 032, 033, 034, 035, and 039 on A330-302, -323, and -343	09/04/10

Issue	Date	Changes	TC issue
		Addition of ESFs F-128 and F-129 on A330-300, -200, and -200F	
39	23/03/15	Addition of WVs 059, 060, 026 and 027 on A330-323 Addition of WV 053 on A330-202 and -203 Addition of WVs 063 and 064 on A330-223	09/04/10
40	08/06/15	Introduction of WVs 080, 081, 082, 083 on A330-302, A330-303, A330-323, A330-342, A330-343 Introduction of Wing Centre Tank on on A330-302, A330-303, A330-323, A330-342, A330-343 Correction of A330-300 Certification Basis Introduction of the EASA Engine TC reference Introduction of Minimum Cabin Crew requirements	09/04/10
41	18/06/15	Updating of typos	09-04/10
42	15/07/15	Extension of A330-300 WV080s aircraft capability to A330-300 WV 030s, 050s, 060s Extension of Fuel Centre Tank modification 204025 to A330-300 WV 030s, 050s, 060s	09/04/10
43	21/09/15	Introduction of WVs 080, 081, 082, 083 on A330-202, A330-203, A330-223, A330-243	09/04/10
44	14/12/15	Introduction of the OSD data	09/04/10
45	25/09/17	Introduction of Special Conditions and ESF Introduction of Halon Free requirement Introduction of Hydraulic Fluid Type V Update of Max Pax and Minimum Cabin Crew paragraph	09/04/10
46	20/07/18	Introduction of ESF D-101 Green Arrow and “Open” Placard for Emergency Exit Marking	09/04/10
47	26/09/18	Full rework of TCDS to match latest EASA TCDS Template Introduction of new section for introduction of A330-941 model (A330neo) Simultaneous release of full Annex to TCDS detailing SC / ESF	26/09/18
48	22/11/18	A330-900 - §III-7.1: Typo correction on unusable fuel (MOD 205749 is Type Design) - §III-10.2: Update of Thermal Envelope (MOD 208120) - §III-11: Update of Wind Speed Limitations (MOD 208117) - §V-1: Update of All Weather Capability (MOD 206292) DATA PERTINENT TO ALL MODELS - §3.2: Approval of ETOPS 180min for A330-941 in relation with update of EASA TCDS for RR Trent 7000 engine.	26/09/18
49	30/11/18	A330-200/-300 - §III-5: Editorial introduction of mixability of PW 4168A with 4168A-1D for A330-223/-323 (as per conditions of corresponding MOD 58956 and associated Airbus SB)	26/09/18
50	24/01/19	A330-200/-300/-900 - §II-3: Typo correction for SC P-2 Centre of gravity control system (ref.or title harmonization vs. referred as P-02 or Trim Tank) A330-300 - §III-1: Double reference for A330-321 and A330-322 TDD (same document) A330-321: 00G000A0321/C00 = 00G000A0321/C0S A330-322: 00G000A0322/C00 = 00G000A0322/C0S DATA PERTINENT TO ALL MODELS - §3.2: Approval of ETOPS 180min and beyond 180min for A330-941. ANNEX TO TCDS UPDATE - ESF S-1066 : CAT III Operations	26/09/18

Issue	Date	Changes	TC issue
51	01/03/19	A330-200/-300 - §II-2: Elect to Comply to CS-ACNS Subpart B, Section 2 and Subpart D for optional modifications answering SES mandates A330-900 - §V-1: Update of All Weather Capability (MOD 206292-2) ANNEX TO TCDS UPDATE - SC D-102: Incorporation of Inertia Locking Device in Dynamic Seats - SC CCD-01: Changes to A330 Cabin Crew Data	26/09/18
52	26/04/19	A330-900 - §III-11: 15kt tailwind at take-off (MOD 205376) and landing (MOD 205377) - §III-11: Crosswind limitations updated A330-200/-300/-900 - §II-3: New SC F-GEN-01: Installation of non-rechargeable lithium battery DATA PERTINENT TO ALL MODELS - §3.2: Precision added on ETOPS approval for A330-941. ANNEX TO TCDS UPDATE - SC F-GEN-01: Installation of non-rechargeable lithium battery	26/09/18
53	14/10/19	A330-200/-300 - §II-2: few indications added between TC and Post TC requirements - §II-6: ESF E-21 is “Post TC” for A330-200/-300 - §III-11: some wording harmonization with A330-900 A330-200/-300/-900 - §II-2: few editorial re-arrangement - §III-4: data rounding (match with published manuals) - §III-18: addition of a note for harmonization with A340 TCDS	26/09/18
54	11/11/19	Introduction of a new section for the introduction of the A330-743L model (Beluga XL)	11/11/19
55	12/02/20	Introduction of new section for introduction of A330-841 model (A330neo) A330-200/-300/-700/-800/-900 - Re-arrangement of the TCDS layout (order of sections) and miscellaneous minor wording harmonization between sections - §II-3: Addition of missing SC: S-48 (Minimum approach break-off height) + S-148 (Longitudinal touchdown performance + MABH deletion) - §II-5: Repeater of deviation information already in Note in §II-2 - §II-7: New EASA template for environmental protections requirements A330-700L - §V: simplified, removal of useless information - §VI: suppressed / merged in Section “Data pertinent to all models” - §VII: suppressed / merged in Section “Data pertinent to all models” A330-900 - §II-2: Typo correction on 25.307; 25.391; 25.393; 25.723; 25.855; 25.863; 25.1357, and addition of a note to CS 25.963(e) Amdt 13 - §V-1: Rewording of All Weather Capability section to match fleet situation DATA PERTINENT TO ALL MODELS - §2: Addition of OSD data from A330-700L - §3.1: Typo corrections	12/02/20
56	03/04/20	A330-200 - §III-5.3.1: Visual typo correction: empty column removed - §III-12: Typo correction: MOD 201436 to retrofit A330-200 to Variant 057 DATA PERTINENT TO ALL MODELS - §3.1: Simplification, removal of useless information - §3.2: Approval of ETOPS 180min and beyond 180min for A330-841.	12/02/20

- END -