# Civil Aviation Authority United Kingdom



# **TYPE-CERTIFICATE DATA SHEET**

UK.TC.A.00044

for AIRBUS A330

Type Certificate Holder

AIRBUS S.A.S.

2 Rond-Point Emile Dewoitine 31700 Blagnac France

Model(s):

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			

Issue:

Date of issue: 09 September 2022

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#### Section 1 General (All Models)

# I. General

This Type-Certificate Data Sheet (TCDS) is the concise definition of the type-certificated product accepted and or approved by the CAA in the UK for the affected types and models.

#### This TCDS includes:

- 1. Details of the type design that affect the TCDS that have been approved or accepted by the CAA in the UK from 01 January 2021.
- Details of the type design that affected the TCDS and were approved or accepted by EASA before 01 January 2021, and were incorporated into EASA TCDS EASA.A.004 at Issue 58 dated 10 September 2020 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.

# II. Correspondance Table Models / Engine Manufacturers

The following table provides a summary of the relationship between models and applicable engine manufacturer.

	A330-200	A330-300	A330-700L	A330-800	A330-900
	series	series	series	series	series
	A330-201	A330-301			
GE Engines	A330-202	A330-302	-	-	-
	A330-203	A330-303			
	A330-223	A330-321			
PW Engines		A330-322	-	-	-
	A330-223F	A330-323			
	4000 040	A330-341			
RR Engines	A330-243	A330-342	A330-743L	A330-841	A330-941
	A330-243F	A330-343			

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#### Section 2 A330-200 Series

# I. General

# 1. Type / Variant or Model

a) Type: A330

b) Model:

Passenger Models:

A330-201, A330-202, A330-203

A330-223 A330-243

Freighter Models:

A330-223F A330-243F

# 2. Airworthiness Category

Large Aeroplances

Performance Category A

# 3. Manufacturer

AIRBUS S.A.S.

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.

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Section 2 A330-200 Series, continued

#### 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: 09 April 2010 A330-243F: 09 April 2010

## 6. UK CAA Type Validation Date

Prior to 01 January 2021, application dates for type certification are covered by DGAC-F and EASA type certification application dates, as per Section 4.2 and Section 5.2 above.

New applications for UK CAA type validation received from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

Prior to 01 January 2021, dates of type certification are covered by DGAC-F and EASA type certification, as per Section 4.3 and Section 5.3 above.

UK CAA type validation dates from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

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#### II. Certification Basis

#### 1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 23 January 1996

# 2. State of Design Airworthiness Authority Type Certification Data Sheet Number

EASA.A.004

#### 3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA, A.004.

#### 4. UK CAA 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

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#### Section 2 A330-200 Series, continued

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

#### Additional Airworthiness Requirements (All models, added Post TC):

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

- Certification Requirements
  - 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).
  - CS 25.1329(i) Amdt 15 for harmonized Primary Flight Display (hPFD) function.
- 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.

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# 5. 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

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# 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)
EACA Numahawin	

#### 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)

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#### Section 2 A330-200 Series, continued

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)

# 6. Exemptions

None

# 7. 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)

# 8. 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

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# 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)

# - 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).
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).

# 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)

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#### 9. Environmental Protection

# 9.1 Noise

See TCDSN no. UK.TC.A.00044

# 9.2 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

# 10. Operational Suitability Data (OSD)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- Approved Operational Suitability Data

# 11. Extended Range Operations (ETOPS)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
- Approved ETOPS Capability

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#### III. Technical Characteristic and Operating 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

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#### Section 2 A330-200 Series, continued

# 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	A33	30-202	A330-203
Engine Model	CF6-80E1A2	CF6-80E1A4 CF6-80E1A4/B		CF6-80E1A3
			(MOD 52776)	
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

<sup>\*</sup> 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.

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#### Pratt & Whitney (PW) engines

A/C Model	A330-223			A330-223F		
Engine	PW4168A	PW4168A-1D	PW4170	PW4168A**	PW4168A-1D	PW4170
Model				(202393)	(58344)	
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					

<sup>\* 10</sup> 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	A33	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

<sup>\*</sup> 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:

ENGIN	NES	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 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.

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

# Section 2 A330-200 Series, continued

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)	Unusal litres	ble fuel (kg)	
	GE	-			
A/C Model		A330-223F (with MOD 58623 and without MOD 200281) All mo			
Model	RR	A330-243F (with MOD 58623 and without MOD 200281)			
			Basic	MOD 205749	
WINC	3 TANK	91,300 (73,040)	348 (279)	190 (152)	
TRIM TANK		K 6,230 (4,984)		6 (5)	
TOTAL		97,530 (78,024)	354 (284)	196 (157)	

		3-TANK AEROPLANE			
		Usable fuel litres (kg)		ble fuel (kg)	
	GE	A330-201 A330-202 A330-203			
A/C Model	PW	A330-223 A330-223F (with MOD 58623+200281 or without MOD 58623)	All models		
	RR	A330-243 A330-243F (with MOD 58623+200281 or without MOD 58623)			
			Basic	MOD 205749	
WINC	3 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)	

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# Section 2 A330-200 Series, continued

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

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# 12. Maximum Weight

Passenger Models:

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

		Enhanced							
Varia	nt	050	051	052	0:	053		055	056
IOM)	D)	(51802)	(51803)	(51804)	(52109)	(204437)	(54106)	(54107)	(55813)
		A330-201	-	A330-201	-	-	A330-201	A330-201	A330-201
	GE	A330-202	-	A330-202	A330-202	A330-202	A330-202	A330-202	A330-202
Models		A330-203	A330-203	A330-203	-	A330-203	A330-203	A330-203	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
MZFW	(T)	168	168	170	168	168	170	170	168
MLW (T	_)	180	180	182	180	180	182	182	180

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Varia	nt	057	058	059	060	061	062	063	064
IOM)	D)	(58859)	(58860)	(57439)	(57440)	(200561)	(201701)	(204729)	(204730)
		(201436)	(201437)						
		A330-201	A330-201	A330-201	A330-201	A330-201	A330-201		
	GE	A330-202	A330-202	A330-202	A330-202	A330-202	A330-202	-	-
Models		A330-203	A330-203	A330-203	A330-203	A330-203	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	Dynamic	192	217
MZFW (T)		170	168	170	170	168	WV* between 057 and 058	168	168
MLW (T	)	182	182	182	182	182	182	182	182

<sup>(\*)</sup> Linear variation between those weights

		242t			
Varia	ant	080 081		082	083
(MO	D)	(203901)	(203902)	(203904)	(203903
	GE	A330-202	A330-202	A330-202	A330-202
		A330-203	A330-203	A330-203	A330-203
Models	PW	A330-223	A330-223	A330-223	A330-223
	RR	A330-243	A330-243	A330-243	A330-243
MTOW	(T)	238	242	Dynamic	240
MZFW (T)		170	166	WV* between 080 and 081	168
MLW (	Γ)	182	182	182	182

<sup>(\*)</sup> Linear variation between those weights

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# Freighter Models:

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

<sup>(\*)</sup> 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: 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.

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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)		Minimum
& Cabin Configuration		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 UK CAA 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	65,000
Compartment	(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 7 DATA PERTINENT TO ALL MODELS.

#### 23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

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#### IV. Operating and Service Instructions

In accordance with Part 21 regulation, Airbus provides 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 7 DATA PERTINENT TO ALL MODELS.

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#### V. Notes

# 1. All Weather Capability

	GE Engines	PW Engines	RR Engines
A/C Model	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.

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#### Section 3 A330-300 Series

# I. General

# 1. Type / Variant or Model

a) Type: A330

b) Model:

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

#### 2. Airworthiness Category

Large Aeroplances

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.

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Section 3 A330-300 Series, continued

# 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

# 6. UK CAA Type Validation Date

Prior to 01 January 2021, application dates for type certification are covered by DGAC-F and EASA type certification application dates, as per Section 4.2 and Section 5.2 above.

New applications for UK CAA type validation received from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

Prior to 01 January 2021, dates of type certification are covered by DGAC-F and EASA type certification, as per Section 4.3 and Section 5.3 above.

UK CAA type validation dates from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

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#### II. Certification Basis

#### 1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 15 June 1988

#### 2. State of Design Airworthiness Authority Type Certification Data Sheet Number

EASA.A.004

#### 3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA, A.004.

# 4. UK CAA 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
  - 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).
  - CS 25.1329(i) Amdt 15 for harmonized Primary Flight Display (hPFD) function.

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
- 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.

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# 5. 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)

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A330-300 Series,	continued
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 Numberir	ng:
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)
or A330-302, A330	0-303, 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)

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# 6. Exemptions

None

#### 7. 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 Section 3.II.4)

## 8. 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

(applicable from March 1996)

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)

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# Section 3 A330-300 Series, continued

ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials (applicable from August 2005)

## - 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).
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).

#### 9. Environmental Protection

#### 9.1 Noise

See TCDSN no. UK.TC.A.00044

# 9.2 Fuel Venting

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

# 10. Operational Suitability Data (OSD)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- Approved Operational Suitability Data

# 11. Extended Range Operations (ETOPS)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
- Approved ETOPS Capability

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## III. Technical Characteristic and Operating 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: 63.66 m (208ft 10in)
- Diameter: 05.64 m (18ft 6in)
- Wing Span: 60.30 m (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 engines
A330-323: Two (2) Pratt & Whitney 4164-1D turbofan engines

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#### Section 3 A330-300 Series, continued

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		A330-303		
Engine Model	CF6-80E1A2	CF6-80E1A2	CF6-80E1A2 CF6-80E1A4 CF		CF6-80E1A3
				(MOD 52776)	
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

<sup>\*</sup> 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.

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#### 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			

<sup>\* 10</sup> 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			

<sup>\*</sup> 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:

ENGII	NES	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 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).

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# 6.4 Hydraulics

Refer to the Consumable Material List (CML).

# 7. Fluid Capacities

# 7.1 Fuel

Fuel quantity (0.8 kg / litre):

	<b>y</b> (* -	2-TANK AEROPLANE				
		Usable litres		Unusable fuel litres (kg)		
GE		A330-301	A330-302 A330-303			
A/C Model	PW	A330-321 A330-322	A330-323	All models		
	RR	A330-341 A330-342 (except WV22 & 52)	A330-342 (WV22 & 52) A330-343			
				Basic	MOD 205749	
WIN	G TANK	91,764 (73,411)	91,300 (73,040)	348 (279)	190 (152)	
TRII	M 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)	

		Usable fuel litres (kg)	Unusable fuel litres (kg)		
	GE	A330-302 WV 030s, 050s, 060s, 080s A330-303 WV 050s, 060s, 080s			
A/C Model	PW	A330-323 WV 030s, 050s, 060s, 080s	All m	odels	
	RR	A330-342 WV 050s, 060s, 080s A330-343 WV 030s, 050s, 060s, 080s			
			Basic	MOD 205749	
WING	3 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)	

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#### Section 3 A330-300 Series, continued

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)

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# 12. Maximum Weight

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

# (\*) Linear variation between those weights

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

		Enhanced	I									
<b>Vari</b> (MC		<b>050</b> (51805)	<b>051</b> (51806)	<b>052</b> (51807)	<b>053</b> (52924)	<b>054</b> (201648) (202218)	<b>055</b> (202462)	<b>056</b> (202878)	<b>057</b> (203716)	<b>058</b> (204297)	<b>059</b> (204475)	<b>060</b> (204476)
	GE	A330-302 A330-303		A330-302 A330-303	A330-302		A330-302 A330-303		-	-	-	-
Models	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			-	-
MTOW	(T)	230	212	233	205	235	Dynamic WV*	205	184	215	217	198
MZFW	(T)	173	175	175	173	173	between 052 and 054	175	164	173	173	173
MLW (	Γ)	185	187	187	185	187	187	187	174	187	185	185

<sup>(\*)</sup> Linear variation between those weights

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

- (\*) 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)		<b>080</b> (203897)	<b>081</b> (203898)	<b>082</b> (203900)	<b>083</b> (203899)
	GE	A330-302 A330-303	A330-302 A330-303	A330-302 A330-303	A330-302 A330-303
Models	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	Dynamic WV*	240
MZFW (T)		175	171	between 080 and 081	173
MLW (T)		187	187	187	187

(\*) 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.

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### 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: 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 & Cabin C	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 UK CAA for specific cabin layouts.

### 19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)	
Forward	22,861	
Aft	18,507	
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 7 DATA PERTINENT TO ALL MODELS.

## 23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

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### IV. Operating and Service Instructions

In accordance with Part 21 regulation, Airbus provides 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 7 DATA PERTINENT TO ALL MODELS.

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#### V. Notes

### 1. All Weather Capability

	GE Er	ngines	PW Engines		RR Engines
A/C Model	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
 WV 030s, 050s, 060s
 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.

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#### Section 4 A330-700L Series

#### I. General

### 1. Type / Variant or Model

a) Type: A330 b) Model: A330-743L

### 2. Airworthiness Category

Large Aeroplances

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: 01 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. UK CAA Type Validation Date

Prior to 01 January 2021, application dates for type certification are covered by EASA type certification application dates, as per Section 4.2 above.

New applications for UK CAA type validation received from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

Prior to 01 January 2021, dates of type certification are covered by EASA type certification, as per Section 4.3 above.

UK CAA type validation dates from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

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#### II. Certification Basis

### 1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification (TC): 01 December 2014

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

## 2. State of Design Airworthiness Authority Type Certification Data Sheet Number

EASA.A.004

### 3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.A.004.

#### 4. UK CAA 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, 25.29, 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, 25.477, \\ 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), 25.773(b)(1)(i), \\ 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), 25.1519, 25.1527, 25.1501, 25.1503, 25.1505, \\ 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, \\ 25.19903(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

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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)

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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)(b)(c), 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), 25.1365(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, 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 (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)

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### Section 4 A330-700L Series, continued

- All weather operations
   JAR AWO change 1
- 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):

- JAR AWO 140 and 183 at change 2.

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# 5. 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

# 6. Exemptions

None

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#### 7. 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 Section 4.II.4)

### 8. 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

#### 9. Environmental Protection

9.1 Noise

See TCDSN no. UK.TC.A.00044

9.2 Fuel Venting

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

# 10. Operational Suitability Data (OSD)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- Approved Operational Suitability Data

# 11. Extended Range Operations (ETOPS)

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

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### III. Technical Characteristic and Operating 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:	63.12 m	(207ft 1in)
-	Fuselage maximum height:	10.49 m	(34ft 5in)
-	Fuselage maximum width:	8.80 m	(28ft 10in)
-	Wing Span:	60.30 m	(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) *	71,100 lbs	
- maximum continuous	63,650 lbs	

<sup>\*</sup> 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

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### 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 RR		A330-743L WV 000, 001	All models	
			Basic	MOD 207112 (MSN 1824 only) or MOD 205749 (MSN 1853 and onward)
WING TANK		91,300 (73,040)	169 (135)	90 (72)
CENTRE TANK		NTRE TANK 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

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### 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

Var (MC		<b>000</b> (Basic)	<b>001</b> (208331)
Models RR		A330-743L	A330-743L
MTOW	(T)	227	205
MZFW	(T)	178	178
MLW (T	)	187	187

### 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.

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## 18. Maximum Passenger 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 <i>Interface Specification between Aircraft &amp; TCU</i> document, reference 00G000AT002/C7S.	
Aft	18,507	
Rear (bulk)	3,468	

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 7 DATA PERTINENT TO ALL MODELS.

### 23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

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### IV. Operating and Service Instructions

In accordance with Part 21 regulation, Airbus provides 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 7 DATA PERTINENT TO ALL MODELS.

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# 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.

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#### Section 5 A330-800 Series

#### I. General

### 1. Type / Variant or Model

a) Type: A330 b) Model: A330-841

### 2. Airworthiness Category

Large Aeroplances

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: 12 February 2020

### 5. UK CAA Type Validation Date

Prior to 01 January 2021, application dates for type certification are covered by EASA type certification application dates, as per Section 4.2 above.

New applications for UK CAA type validation received from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

Prior to 01 January 2021, dates of type certification are covered by EASA type certification, as per Section 4.3 above.

UK CAA type validation dates from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

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#### II. Certification Basis

### 1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 04 March 2015

### 2. State of Design Airworthiness Authority Type Certification Data Sheet Number

EASA.A.004

### 3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.A.004.

# 4. UK CAA 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), 25.679, 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)

 $25.023,\ 25.025,\ 25.027,\ 25.029,\ 25.031,\ 25.101,\ 25.103\ (except\ (b)),\ 25.105\ (except\ (a)),\ 25.107\ (except\ (h)),\ 25.109,\ 25.111\ (except\ (c)),\ 25.113,\ 25.115,\ 25.117,\ 25.121(a),\ 25.123\ (except\ (b)),\ 25.143\ (except\ (c)(i)(j)(j)),\ 25.145,\ 25.147,\ 25.149,\ 25.161,\ 25.171,\ 25.173,\ 25.175,\ 25.177,\ 25.181,\ 25.201,\ 25.203,\ 25.231,\ 25.233,\ 25.235,\ 25.251,\ 25.253\ (except\ (c)),\ 25.255,\ 25.301,\ 25.302,\ 25.303,\ 25.305,\ 25.307(a),\ 25.321,\ 25.331,\ 25.333,\ 25.335\ (except\ (f)),\ 25.337,\ 25.341,\ 25.343,\ 25.345\ (except\ (c)),\ 25.349,\ 25.351,\ 25.365\ (except\ (e),(f),(g)),\ 25.367,\ 25.373,\ 25.391,\ 25.393,\ 25.415,\ 25.427,\ 25.457,\ 25.471(b),\ 25.473,\ 25.479,\ 25.481(except\ (b)),\ 25.483,\ 25.485,\ 25.489,\ 25.491,\ 25.493,\ 25.499,\ 25.503,\ 25.507,\ 25.509,\ 25.511,\ 25.519,\ 25.561(c)\ (applicable\ to\ large\ items\ of\ masses\ only),\ 25.571,\ 25.619,\ 25.625,\ 25.629,\ 25.631,\ 25.683(b),\ 25.773(b),\ 25.777(i),\ 25.809(g)\ (applicable\ to\ Door\ 3\ panelization\ area\ only),\ 25.843(a),\ 25.901(c),\ 25.963(a),\ 25.963(d1)\ (applicable\ to\ fuel\ centre\ tank\ only),\ 25.1501,\ 25.1511,\ 25.1513,\ 25.1515,\ 25.1516,\ 25.1517,\ 25.1519,\ 25.1531,\ 25.1533,\ 25.1535,\ 25.1581,\ 25.1583,\ 25.1583,\ 25.1581,\ 25.1583,\ 25.1587,\ 25.1591$ 

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),

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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),
- JAR AWO 140 Change 2.
- 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
  - 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)
  - CS 25.1001(d)(h) Amdt 15 for Jettison
  - CS 25.1329(i) Amdt 15 for harmonized Primary Flight Display (hPFD) function.

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### 5. 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 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 F-126	Flight Recorders including Data Link Recording
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

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### Section 5 A330-800 Series, continued

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)	

### 6. Exemptions

None

# 7. 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 Section 5.II.4)

## 8. 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

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### - 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

### 9. Environmental Protection

#### 9.1 Noise

See TCDSN no. UK.TC.A.00044

# 9.2 Fuel Venting

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

# 10. Operational Suitability Data (OSD)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- Approved Operational Suitability Data

# 11. Extended Range Operations (ETOPS)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
- Approved ETOPS Capability

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### III. Technical Characteristic and Operating 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	(193 ft)
-	Diameter:	05.64m	(18 ft 6 in)
-	Wing Span:	64.00m	(210 ft)
-	Height:	17.38 m	(57 ft)

### 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) *	72,834 lbs
- maximum continuous	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

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

### 6.1 Fue

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, 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	A330-841	
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

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### 10. Maximum Operating Altitude and Temperature

10.1 Altitude

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

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

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 (15kt with MOD 205376)

Landing: 10kt (15kt with MOD 205377)

### 12. Maximum Weight

	EIS				
Variant (MOD)	<b>800</b> (Basic)	<b>801</b> (205427)	<b>802</b> (205428)	<b>803</b> (205429)	<b>804</b> (205430)
Model	A330-841	A330-841	A330-841	A330-841	A330-841
MTOW (T)	Dynamic WV*	242	238	234	230
MZFW (T)	between 801 and 802	172	176	176	176
MLW (T)	186	186	186	186	186

### (\*) Linear variation between those weights

	Low MTOW				
Variant (MOD)	<b>805</b> (209311)	<b>806</b> (209312)	<b>807</b> (209313)	<b>808</b> (209314)	<b>809</b> (209315)
Model	A330-841	A330-841	A330-841	A330-841	A330-841
MTOW (T)	220	215	210	205	200
MZFW (T)	176	176	176	176	176
MLW (T)	186	186	186	186	186

#### 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

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### 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: 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).

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 UK CAA 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 7 DATA PERTINENT TO ALL MODELS.

### 23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

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### IV. Operating and Service Instructions

In accordance with Part 21 regulation, Airbus provides 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 7 DATA PERTINENT TO ALL MODELS.

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# V. Notes

# 1. All Weather Capability

	RR Engines	
A/C Model	A330-841	
Type Design Capability	Cat 1 manual ILS CAT I approach using Raw Data	
Option Capability (MOD)	Cat 3 Precision approach and Autoland (208875)	

# 2. Conversions between Models

N/A.

# 3. Change of Weight Variants

N/A.

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#### Section 6 A330-900 Series

#### I. General

### 1. Type / Variant or Model

a) Type: A330 b) Model: A330-941

### 2. Airworthiness Category

Large Aeroplances

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: 26 September 2018

### 5. UK CAA Type Validation Date

Prior to 01 January 2021, application dates for type certification are covered by EASA type certification application dates, as per Section 4.2 above.

New applications for UK CAA type validation received from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

Prior to 01 January 2021, dates of type certification are covered by EASA type certification, as per Section 4.3 above.

UK CAA type validation dates from 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

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#### II. Certification Basis

### 1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 25 July 2014

### 2. State of Design Airworthiness Authority Type Certification Data Sheet Number

EASA.A.004

### 3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.A.004.

### 4. UK CAA 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), 25.679, 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)

 $25.023,\ 25.025,\ 25.027,\ 25.029,\ 25.031,\ 25.101,\ 25.103\ (except\ (b)),\ 25.105\ (except\ (a)),\ 25.107\ (except\ (h)),\ 25.109,\ 25.111\ (except\ (c)),\ 25.113,\ 25.115,\ 25.117,\ 25.121(a),\ 25.123\ (except\ (b)),\ 25.143\ (except\ (c)(i)(j)(l)),\ 25.145,\ 25.147,\ 25.149,\ 25.161,\ 25.171,\ 25.173,\ 25.175,\ 25.177,\ 25.181,\ 25.201,\ 25.203,\ 25.231,\ 25.233,\ 25.235,\ 25.251,\ 25.253\ (except\ (c)),\ 25.255,\ 25.301,\ 25.302,\ 25.303,\ 25.305,\ 25.307(a),\ 25.321,\ 25.331,\ 25.333,\ 25.335\ (except\ (f)),\ 25.337,\ 25.341,\ 25.343,\ 25.345\ (except\ (c)),\ 25.349,\ 25.351,\ 25.365\ (except\ (e),(f),(g)),\ 25.367,\ 25.373,\ 25.391,\ 25.393,\ 25.415,\ 25.427,\ 25.457,\ 25.471(b),\ 25.473,\ 25.479,\ 25.481(except\ (b)),\ 25.483,\ 25.485,\ 25.489,\ 25.491,\ 25.493,\ 25.499,\ 25.503,\ 25.507,\ 25.509,\ 25.511,\ 25.519,\ 25.561(c)\ (applicable\ to\ large\ items\ of\ masses\ only),\ 25.571,\ 25.619,\ 25.625,\ 25.629,\ 25.631,\ 25.683(b),\ 25.773(b),\ 25.777(i),\ 25.809(g)\ (applicable\ to\ Door\ 3\ panelization\ area\ only),\ 25.843(a),\ 25.901(c),\ 25.963(a),\ 25.963(d1)\ (applicable\ to\ fuel\ centre\ tank\ only),\ 25.1501,\ 25.1511,\ 25.1513,\ 25.1515,\ 25.1516,\ 25.1517,\ 25.1519,\ 25.1531,\ 25.1533,\ 25.1535,\ 25.1531,\ 25.153$ 

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),

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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),
- JAR AWO 140 Change 2.
- 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
  - CS 25.731 except (e), CS 25.733, CS 25.734, CS 25.963(e) for Wheel and Tyre Failures impacts on Fuel Tanks only, Amdt 15, for A/C configuration including center wing box MOD 207401 (MSN1967 and onwards, except MSN 1971 and MSN 1972). Note that compliance demonstration to CS 25.734 addresses the objectives of JAR 25.729(f)(1), and JAR 25.729(f)(2) Change 14 (see note below).
  - 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)
  - CS 25.1001(d)(h) Amdt 15 for Jettison

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- CS 25.1329(i) Amdt 15 for harmonized Primary Flight Display (hPFD) function.

Note: Wheel and Tyre Failures (W&TF) compliance demonstration is done as follows:

For A330ceo and A330-841/-941 before MSN 1966 + MSN 1971 & 1972 (i.e. A/C with 242t Airframe)

- Applicable requirement : JAR 25.729(f)(1), (f)(2)
- Compliance demonstration, for modification impacting the Wheel and Tyre Failure, done using legacy Airbus WTF models (refer to Certification Document 00G320J0107/C02, issue 2)

For A330-941 MSN 1967 and onwards, except MSN 1971 & 1972

- Applicable requirements: JAR 25.729(f)(1), (f)(2) & CS 25.734
- Compliance Demonstration, for modification impacting the Wheel and Tyre Failure, done using AMC 25.734 models only:
  - Compliance to CS25.734 done using MoC 2
  - Compliance to JAR 25.729(f)(1), (f)(2) done using MoC 0 in MCCP stating that CS 25.734 compliance addresses objectives of JAR 25.729(f)(1), (f)(2)

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### 5. 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 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 F-126	Flight Recorders including Data Link Recording
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

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### Section 6 A330-900 Series, continued

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)

### 6. Exemptions

None

### 7. 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 Section 6.II.4)

### 8. 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

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### Section 6 A330-900 Series, continued

- 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	

### 9. Environmental Protection

#### 9.1 Noise

See TCDSN no. UK.TC.A.00044

### 9.2 Fuel Venting

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

### 9.3 Carbon Dioxide Emissions

For A/C configuration without center wing box MOD 207401 (before MSN1967)

CS-CO2, Issue 1;

ICAO Annex 16, Volume III, First Edition,

CO2 standard in accordance with Part II, Chapter 2, paragraph 2.4.2 f);

Note: corresponds to CAEP/10 In-Production Standard.

For CO2 metric values see EASA Aeroplane CO2 Emissions Database.

### 10. Operational Suitability Data (OSD)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements
- Approved Operational Suitability Data

### 11. Extended Range Operations (ETOPS)

See SECTION 7 DATA PERTINENT TO ALL MODELS for:

- ETOPS Technical Conditions
- Approved ETOPS Capability

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### III. Technical Characteristic and Operating 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: 63.66 m (208 ft 10 in)
- Diameter: 05.64 m (18 ft 6 in)
- Wing Span: 64.00 m (210 ft)
- Height: 16.79 m (55 ft 1 in)

#### 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) *	72,834 lbs
- maximum continuous	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

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### 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, 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	A330-941						
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

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## 10. Maximum Operating Altitude and Temperature

10.1 Altitude

Maximum Flight level: 41,450 ft (12,634 m)
Maximum Airfield altitude: 8,000 ft (2,438 m)

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	900	901	902	903	904					
(MOD)	(Basic)	(205432)	(205433)	(205434)	(205435)					
Model	A330-941	A330-941	A330-941	A330-941	A330-941					
MTOW (T)	Dynamic WV*	242	238	234	230					
MZFW (T)	between 901 and 902	177	181	181	181					
MLW (T)	191	191	191	191	191					

#### (\*) Linear variation between those weights

	245t				
Variant	910	911	912		
(MOD)	(208554)	(208555)	(208556)		
Model	A330-941	A330-941	A330-941		
MTOW (T)	Dynamic WV*	245	241		
MZFW (T)	between 911 and 912	177	181		
MLW (T)	191	191	191		

(\*) Linear variation between those weights

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	251t						
Variant (MOD)	<b>920</b> (207873)	<b>921</b> (208006)	<b>922</b> (208007)				
Model	A330-941	A330-941	A330-941				
MTOW (T)	Dynamic WV*	251	247				
MZFW (T)	between 921 and 922	177	181				
MLW (T)	191	191	191				

#### (\*) Linear variation between those weights

	Low MTOW								
Variant (MOD)	<b>905</b> (209307)	<b>906</b> (209308)	<b>907</b> (209309)	<b>908</b> (209310)					
Model	A330-941	A330-941	A330-941	A330-941					
MTOW (T)	220	215	210	205					
MZFW (T)	181	181	181	181					
MLW (T)	191	191	191	191					

## 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

Three 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)

- Configuration A+-A+-A+: Option 4 Type A+ passenger doors

(MOD 209140, 209414, 209104, 209415, 209105)

### 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).

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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:

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

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

#### 19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)
Forward	22,861
Aft	18,507
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 7 DATA PERTINENT TO ALL MODELS.

#### 23. Wheels and Tyres

Refer to Airbus Service Bulletin A330-32-3004.

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#### IV. Operating and Service Instructions

In accordance with Part 21 regulation, Airbus provides 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 7 DATA PERTINENT TO ALL MODELS.

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## V. Notes

# 1. All Weather Capability

	RR Engines		
A/C Model	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.

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#### Section 7 Data Pertinent to All Models

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

#### I. 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 series

- 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 approved A330 Airworthiness Limitations Section (ALS) sub-parts 1-2 and 1-3;

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 approved A330 Airworthiness Limitations Section (ALS) Part 2;

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 approved A330 Airworthiness Limitations Section (ALS) Part 3;

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 approved A330 Airworthiness Limitation Section (ALS) Part 4;

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 approved A330 Airworthiness Limitations Section (ALS) Part 5;

Applicable Document Reference:

- Ref: A330 ALS Part 5 (latest published revision)
- Ref: A330 ALS Part 5 Variations (latest published set of variations)

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#### II. Operational Suitability Data (OSD)

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

#### 1. Flight Crew Data (FCD)

- Operational Suitability Requirements:

**CS-FCD** Initial Issue

- Approved Operational Suitability Data:

Required for Entry into Service by UK operator.

All Models: FCD Ref. V01RP1505446 Issue 1 dated 11<sup>th</sup> of December 2015

(or later approved revisions)

<u>A330-743L only:</u> FCD Ref. G01RP1919857 Issue 1.2 dated 9<sup>th</sup> 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. 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

Approved Operational Suitability Data:

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

All Models: CCD Ref. LR01RP1534111 Issue 1 dated 16<sup>th</sup> 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.

#### 3. Master Minumum Equipment List (MMEL)

- Operational Suitability Requirements:

JAR MMEL / MEL Subpart B amendment 1

- Approved Operational Suitability Data:

Required for Entry into Service by UK 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)

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# III. Extended Range Operations (ETOPS)

## 1. ETOPS Technical Conditions

		А	A330 II WV (Exc		A330-300 V 050 + WV Centre Tan				
A/C Model	A330-301 - -	A330-301						- A330-323	- A330-342 A330-343
Defined in	JAA CRI G-6 (up to 180min)					180min)		EASA CRI G-	-8
Defined in	EASA CRI G-8 (beyond 180min) EASA CRI G-8 (beyond 180min)					d 180min)	(up to	and beyond	180min)
Technical Conditions		AMC 20-6 (AMJ 120-42 / IL 20)						AMC 20-6 Rev	<i>i</i> 1

	A330-200			A330-200F		
A/C Model	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	

		A330-900		A330-800			
A/C Model	-	-	A330-941	-	-	A330-841	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
CS 25.1535 Amdt 15			5	CS 25.1535 Amdt 15			
Defined in	(up to and beyond 180min)		(up to and beyond 180min)				
Technical Conditions	AMC 20-6 Rev 2				AMC 20-6 Rev 2		

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

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### 2. 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.

			Approval Date	
A/C Model	Engine Type	ETOPS 120 Min	ETOPS 180 Min	ETOPS Beyond 180 Min*
A330-200 SERIE	S			
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	-	- 19 November 2002 13 October 20 - 27 April 1998 13 October 20 - 30 November 2001 13 October 20 - 13 July 1998 13 October 20 - 04 June 2009 13 October 20 - 09 July 2010 10 April 2012 May 2013 09 July 2010 19 April 2006 13 October 20 - 09 July 2010 17 June 2004 13 October 20 - 18 February 20 - 19 October 20 - 11 December 20 - 22 April 1999 13 October 20	13 October 2009
	PW 4170	-	04 June 2009	13 October 2009
A330-223F	PW 4170	-	09 July 2010	-
	PW 4168A-1D	-	### TOPS IN MIN ### TOPS IN MIN MIN MIN MIN MIN MIN MIN MIN MIN	-
	Intermix	-	May 2013	-
	PW 4168A /			
	PW 4168A-1D			
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 SERIE	:S	<b>.</b>		
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

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		Approval Date			
A/C Model	Engine Type	ETOPS 120 Min	ETOPS 180 Min	ETOPS Beyond 180 Min*	
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	A330-900 SERIES				
A330-941	RR Trent 7000-72	-	14 November 2018	24 January 2019	

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

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## Section 8 Administration

# I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
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
CML	Consumable Material List
CMP	Configuration, Maintenance and Procedures
CRI	Certification Review Item
CS	Certification Specification
DGAC-F	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 Twin-engine Operational Performance Standards
EU	European Union
EU MS	European Union Member States
EWIS	Electrical Wiring Interconnection System
FCD	Flight Crew Data
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
FRS	Flammability Reduction Systems
GE	General Electric
HIC	Head Injury Criterion
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
JAA	Joint Aviation Authorities
JAR	Joint Aviation Requirements
MAC	Mean Aerodynamic Chord
MOD	Modification

Acronym / Abbreviation	Definition
MPSC	Maximum Passenger Seating Capacity
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
SAT	Static Air Temperature
SB	Service Bulletin
SC	Special Condition
SRM	Structural Repair Manual
TAT	Total Air Temperature
TC	Type Certificate/Type Certification
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
TCH	Type Certificate Holder
W&BM	Weight and Balance Manual
WV	Weight Variant

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## II. Type Certificate Holder Record

TCH Record	Period
Airbus S.A.S.	Present. No changes.
2 Rond-Point Emile Dewoitine	
31700 Blagnac	
France	

	endment Record	<u> </u>	
TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	The content of the initial issue of this UK CAA TCDS was taken from EASA TCDS No. EASA.A.004 Issue 58 dated 10 September 2020 which was the current EASA version at 31 December 2020 and therefore the version of the TCDS for the A330 accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement, except as listed below:		Issue 1 09 Sep 2022
		Changes related to UK.ADMIN.00053:	
		<ul> <li>COVER PAGE: Typo correction : Holder name is "Airbus S.A.S."</li> </ul>	
		<ul> <li>Section 2.II.4: Addition of CS 25.1329 (i) for hPFD design change.</li> </ul>	
		<ul> <li>Section 2.III.12: Upgrade of Weight Variants tables for more adequate information on dynamic Weight Variants</li> <li>Section 3.II.4: Addition of CS 25.1329 (i) for hPFD design change.</li> <li>Section 3.III.12: Upgrade of Weight Variants tables for more adequate information on dynamic Weight Variants</li> <li>Section 4.II.4 Airworthiness Requirements Addition of JAR AWO Change 1. Additional Airworthiness Requirements (All models, added Post TC): JAR AWO 140, 183 Change 2</li> <li>Section 5.III.4: Addition of CS 25.1329 (i) for hPFD design change.</li> <li>Section 5.III.12: Upgrade of Weight Variants tables for more adequate information on dynamic Weight Variants</li> <li>Section 5.III.12: Addition of Low MTOW Weight Variants</li> <li>Section 6.II.4: Addition of CS 25.1329 (i) for hPFD design change.</li> <li>Section 6.II.4: Elect to Comply to CS 25.731 except (e), CS 25.733, CS 25.734, CS 25.963(e) for Wheels and Tyre Failures impacts on Fuel Tanks only, Amdt 15, for A/C</li> </ul>	
		configuration including center wing box MOD 207401  • Section 6.II.9.3: Addition of Carbon Dioxide Emissions	
		<ul> <li>Section 6.III.12: Upgrade of Weight Variants tables for more adequate information on dynamic Weight Variants</li> <li>Section 6.III.12: Addition of 251t Weight Variants: WV 920 / 921 / 922</li> <li>Section 6.III.12: Addition of Low MTOW Weight Variants</li> </ul>	
		Editorial changes/Changes to reflect EU Exit:	
		<ul> <li>Section 1: Added, subsequent sections re-numbered as required.</li> <li>Section 2.I.6: Added</li> <li>Section 2.II.2, 2.II.3: Added</li> <li>Section 2.II.4: Title undated to "LIK CAA Airworthiness"</li> </ul>	
		<ul> <li>Section 2.II.4: Title updated to "UK CAA Airworthiness Requirements"</li> </ul>	

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TCDS TCDS Issue Changes TC Issue Issue No. Date and Date

- Section 2.II.9.1: Reference to EASA TCDSN updated to reference UK CAA TCDSN.
- Section 2.III.10: Cross reference updated to refer to Section 7, "EASA Approved Operational Suitablity Data" updated to "Approved Operational Suitablity Data"
- Section 2.III.11: Cross reference updated to refer to Section 7, "EASA Approved ETOPS Capability" updated to "Approved ETOPS Capability"
- Section 2.III.18 "UK CAA" substituted for "EASA"
- Section 2.III.22: Cross reference updated to refer to Section 7
- Section 2.IV.7: Cross reference updated to refer to Section 7
- Section 3.I.6: Added
- Section 3.II.2, 3.II.3: Added
- Section 3.II.4: Title updated to "UK CAA Airworthiness Requirements"
- Section 3.II.7: Cross reference to Note updated to reflect renumbering
- Section 3.II.9.1: Reference to EASA TCDSN updated to reference UK CAA TCDSN.
- Section 3.III.10: Cross reference updated to refer to Section 7, "EASA Approved Operational Suitablity Data" updated to "Operational Suitablity Data"
- Section 3.III.11: Cross reference updated to refer to Section 7, "EASA Approved ETOPS Capability" updated to "Approved ETOPS Capability"
- Section 3.III.18 "UK CAA" substituted for "EASA"
- Section 3.III.22: Cross reference updated to refer to Section 7
- Section 3.IV.7: Cross reference updated to refer to Section 7
- Section 4.I.5: Added
- Section 4.II.2, 4.II.3: Added
- Section 4.II.4: Title updated to "UK CAA Airworthiness Requirements
- Section 4.II.7: Cross reference to Note updated to reflect renumbering
- Section 4.II.9.1: Reference to EASA TCDSN updated to reference UK CAA TCDSN.
- Section 4.III.10: Cross reference updated to refer to Section 7, "EASA Approved Operational Suitablity Data" updated to "Approved Operational Suitablity Data"
- Section 4.III.22: Cross reference updated to refer to Section 7
- Section 4.IV.7: Cross reference updated to refer to Section 7
- Section 5.I.5: Added
- Section 5.II.2, 5.II.3: Added
- Section 5.II.4: Title updated to "UK CAA Airworthiness Requirements"
- Section 5.II.7: Cross reference to Note updated to reflect renumbering
- Section 5.II.9.1: Reference to EASA TCDSN updated to reference UK CAA TCDSN.
- Section 5.III.10: Cross reference updated to refer to Section 7, "EASA Approved Operational Suitablity Data" updated to "Approved Operational Suitablity Data"
- Section 5.III.11: Cross reference updated to refer to Section 7, "EASA Approved ETOPS Capability" updated to "Approved ETOPS Capability"
- Section 5.III.18 "UK CAA" substituted for "EASA"
- Section 5.III.22: Cross reference updated to refer to Section 7
- Section 5.IV.7: Cross reference updated to refer to Section 7
- Section 6.I.5: Added

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TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
		<ul> <li>Section 6.II.2, 6.II.3: Added</li> <li>Section 6.II.4: Title updated to "UK CAA Airworthiness Requirements"</li> <li>Section 6.II.7: Cross reference to Note updated to reflect renumbering</li> <li>Section 6.II.9.1: Reference to EASA TCDSN updated to reference UK CAA TCDSN.</li> <li>Section 6.III.10: Cross reference updated to refer to Section 7, "EASA Approved Operational Suitablity Data" updated to "Approved Operational Suitablity Data"</li> <li>Section 6.III.11: Cross reference updated to refer to Section 7, "EASA Approved ETOPS Capability" updated to "Approved ETOPS Capability"</li> <li>Section 6.III.18 "UK CAA" substituted for "EASA"</li> <li>Section 6.III.22: Cross reference updated to refer to Section 7</li> <li>Section 6.IV.7: Cross reference updated to refer to Section 7</li> <li>Section 7.I. ALS Part 1, 2, 3, 4, 5: Words "approved by EASA" removed, word "approved" added.</li> <li>Section 7.II.1, 2, 3: Words "EASA Approved" removed, word "Approved" added.</li> <li>Section 7.III.2: Words "EASA Approved" removed, word "Approved" added.</li> </ul>	

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