Civil Aviation Authority
United Kingdom

TYPE-CERTIFICATE DATA SHEET

UK.TC.A.00156

for

AIRBUS A340

Type Certificate Holder

AIRBUS S.A.S.

2 Rond-Point Emile Dewoitine

31700 Blagnac

France

Model(s):	A340-211	A340-311	A340-541	A340-642
	A340-212	A340-312	A340-542	A340-643
	A340-213	A340-313		
Issue:	1			
Date of issue:	03 February 2026			

General (All Models)

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Section 0 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.

2. 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.015 at Issue 25 dated 04 July 2019 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.

	A340-200 series	A340-300 series	A340-500 series	A340-600 series
CFM Engines	A340-211 A340-212 A340-213	A340-311 A340-312 A340-313	-	-
RR Engines	-	-	A340-541 A340-542 -	- A340-642 A340-643

Section 1 A340-200 Series

I. General

1. Type / Variant / Model

a) Type: A340
b) Model: A340-211, A340-212, A340-213

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

DGAC-F

4.2 Application Date

A340-211: 15 June 1988

A340-212: 15 June 1988

A340-213: 15 June 1988

4.3 State of Design Authority Type Certificate Date

A340-211: 22 December 1992

A340-212: 14 March 1994

A340-213: 19 December 1995

5. EASA Type Certification

5.1 State of Design Authority

N/A

5.2 Application Date

N/A

5.3. State of Design Authority Type Certificate Date

N/A

DGAC-F TC 183 remains a valid reference for models certified before 28 September 2003

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.

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.015

3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.A.015.

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):

- 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.

5. Special Conditions

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

- JAA Numbering:

  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

A340-200 Series

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 G-5 Resistance to fire terminology (NPA 25D-181)

SC G-7 Function and reliability testing

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-38 Towbarless towing

SC S-148 Longitudinal touchdown performance limit and Minimum Approach Break-Off Height ((NPA AWO-8, this SC replaces S-48)

SC P-1 FADEC

SC P-2 Centre of gravity control system

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

- JAA Numbering:

SC P-27 Flammability Reduction System
(applicable from June 2010)

SC P-32 Fuel Tank Safety
(applicable from November 2013)

SC E-2 Crew rest
(applicable from February 1993)

SC E-5.1 Lower deck Lavatory
(applicable from August 2000)

SC E-8.1 Lower deck stowage area
(applicable from August 2000)

SC E-11 Bulk crew rest compartment
(applicable from January 2002)

SC E-19 F/C sliding screens
(applicable from September 2003)

SC E-28 Partial Bulk Crew Rest Compartment with attached to galley
(applicable from January 2009)

SC E-128 Improved flammability standards for thermal/acoustic insulation
(applicable from February 2009)

SC E-130 Application of heat release and smoke density requirements to seat materials
(applicable from February 2010)

SC E-1014 HIC compliance for front row seating (inflatable restraints)
(applicable from July 2007)

SC F-GEN-01 Installation of non-rechargeable lithium battery
(applicable as of 04 July 2019)

A340-200 Series

SC H-01 Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS (applicable from May 2010)

- EASA Numbering:

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-137 Security Protection of Aircraft Systems and Networks (applicable from May 2018)

6. Exemptions

None.

7. Deviations

None

8. Equivalent Safety Findings

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

- JAA Numbering:

ESF S-45 Oil temperature indication

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 (or F-8.1) Accelerate stop distances
- SC S-21 Brakes wear limits

For A340-213 Weight Variant 021 only:

- SC F-8.1 is applicable instead of SC F-8.

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 (applicable from July 2002)

ESF E-17 Trolley Lift (applicable from November 2003)

ESF E-18 Lower Deck galley compartment (applicable from November 2003)

ESF E-21 Emergency exit marking reflectance (applicable from December 2004)

ESF E-27 Forward facing seats over 18 degrees to A/C centreline (applicable from June 2009)

ESF E-29 Fuselage burn through – aft pressure bulkhead (applicable from March 2009)

ESF E-30 Fuselage burn through – belly fairing (applicable from April 2009)

ESF E-31 Fuselage burn through – bilge area (applicable from April 2009)

ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis (applicable from November 2013)

ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials, it provides an equivant level of safety to JAR 25.853(b)
(applicable from August 2005)

ESF F-128 Minimum Mass Flow of Supplemental Oxygen, it provides an equivalent level of safety to JAR 25.1443(c)
(applicable from November 2014).

ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System, it provides an equivalent level of safety to JAR 25.1441(c)
(applicable from November 2014).

- EASA Numbering:

ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking, it provides an equivalent level of safety to CS 25.811(e)(4) amdt 3, when the aircraft is equipped with symbolic exit signs
(applicable from July 2018).

9. Environmental Protection

9.1 Noise

ICAO Annex 16, Volume I

See TCDSN no UK.TC.A.00156.
Note: MOD 55005 originally used for compliance demonstration is not mandatory anymore.

9.2 Fuel Venting and Emissions

ICAO Annex 16, Volume II

10. Operational Suitability Data (OSD)

See SECTION 5 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements

- Approved Operational Suitability Data

III. Technical Characteristics and Operating Limitations

1. Type Design Definition

With CFM International (CFMI) engines

A340-211: 00F000A0211/C00

A340-212: 00F000A0212/C00

A340-213: 00F000A0213/C00

2. Description

Four turbo-fan, 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:	59.39m	(194ft 10in)
-	Diameter:	5.64m	(18ft 6in)
-	Wing Span:	60.30m	(197ft 10in)
-	Height:	16.83 m	(55ft 3in)

5. Engine

5.1 Model

CFM International (CFMI) engines

A340-211: Four (4) CFM56-5C2 or CFM56-5C2/4 or CFM56-5C2/F or CFM56-5C2/F4 or CFM56-5C2/G or CFM56-5C2/G4 or CFM56-5C2/P turbofan engines

A340-212: Four (4) CFM56-5C3/F or CFM56-5C3/F4 or CFM56-5C3/G or CFM56-C3/G4 or CFM56-5C3/P turbofan engines

A340-213: Four (4) CFM56-5C4 or CFM56-5C4/1 or CFM56-5C4/P or CFM56-5C4/1P turbofan engines

5.2 Type Certificate

CFM International (CFMI) engines

FAA Engine TCDS: E37NE

EASA Engine TCDS: EASA.E.003

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5.3 Limitations

5.3.1 Installed Engine Limits

CFM International (CFMI) engines

A/C Model	A340-211	A340-212	A340-213
Engine Model Data Sheet E37NE (FAA) E.003 (EASA)	CFM56-5C2 CFM56-5C2/4 CFM56-5C2/F CFM56-5C2/F4 CFM56-5C2/G CFM56-5C2/G4 CFM56-5C2/P	CFM56-5C3/F CFM56-5C3/F4 CFM56-5C3/G CFM56-5C3/G4 CFM56-5C3/P	CFM56-5C4 CFM56-5C4/1 CFM56-5C4/P CFM56-5C4/1P
Static thrust at sea level: - take-off (5mn) * (flat rated 30°C)	13,878 daN	14,456 daN	15,124 daN
- maximum continuous	12,588 daN	13,078 daN	13,371 daN
Approved Oils: see CFMI engine Service Bulletin N°79-001, latest revision			

* 10 minutes at take-off thrust allowed only in case of engine failure (at take-off or during go-around) in accordance with EASA TCDS paragraph VI-1.

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

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

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
CFMI: (Operating Instruction in CFMI Manuals)	JET A, JET A-1, JP5, JP8, N° 3 Jet Fuel, Jet B, JP-4 TS-1(GOST), RT(GOST)

The above mentioned fuels and additives 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).

See CFMI "Specific Operating Instructions", installation manual.

6.4 Hydraulics

Refer to the Consumable Material List (CML).

A340-200 Series

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

A340-211, A340-212, A340-213

	3 – TANK AIRPLANE		
	Usable fuel liters (kg)	Usable fuel liters (kg) (MOD 46761)	Unusable fuel litres (kg)
WING TANK	91,056 (72,845)	91,056 (72,845)	245 (196)
CENTER	41,468 (33,174)	41,468 (33,174)	83 (66)
TRIM TANK	6,114 (4,891)	6,230 (4,984)	6 (5)
TOTAL	138,638 (110,910)	138,754 (111,003)	334 (267)

A340-213 Weight Variant 021 and on

	3 – TANK AIRPLANE		3 – TANK AIRPLANE WITH OPTIONAL ACTs MOD 44002, 44005	
	Usable fuel liters (kg)	Unusable fuel litres (kg)	Usable fuel liters (kg)	Unusable fuel litres (kg)
WING TANK	92,850 (74,280)	245 (196)	92,850 (74,280)	245 (196)
CENTER	41,468 (33,174)	83 (66)	41,468 (33,174)	83 (66)
TRIM TANK	6,230 (4,984)	6 (5)	6,230 (4,984)	6 (5)
TOTAL	140,548 (112,438)	334 (267)	-	-
1 ACT in cargo hold	-	-	7,200 (5,760)	28 (22)
TOTAL with 1 ACT in cargo hold	-	-	147,748 (118,198)	362 (290)
2 ACTs in cargo hold	-	-	14,400 (11,520)	56 (44)
TOTAL with 2 ACTs in cargo hold			154,948 (123,958)	390 (312)

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: 41,100 ft (12,527m)

A340-200 Series

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

10.2 Temperature

Flight: Minimum: -74°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 :	37.5kt (gust included)
		Engine:	Refer to AFM Limitation section
	Landing:	A/C :	41kt (gust included)
		Engine:	Refer to AFM Limitation section
- Tailwind:	Takeoff:	10kt	
	Landing:	10kt	

12. Maximum Weight

Valid for A340-211, A340-212 and A340-213

Variant (MOD)	**000** (Basic)	**001** (41302)	**002** (44229)
MTOW (T)	235.5	257	260
MLW (T)	181	181	181
MZFW (T)	169	169	169

Valid for A340-213 Weight Variant 020

Variant (MOD)	**021** (44281)
MTOW (T)	275
MLW (T)	185
MZFW (T)	173

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: 7.290m

15. Levelling Means

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

16. Minimum Flight Crew

Two (2): Pilot and Co-pilot.

17. Passenger Emergency Exit

Two Passenger Emergency Exit configurations:

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

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

The maximum number of passengers approved for emergency evacuation is:

- 375 Basic
- 420 Option (in Configuration A-A-A-A, MOD 40161).

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
420	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 the UK CAA for specific cabin layouts.

19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)
Forward	18,507
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 5: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin A340-32-4007.

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 34000 (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 5: DATA PERTINENT TO ALL MODELS.]

V. Notes

1. All Weather Capability

A/C Model	CFMI Engines		
	A340-211	A340-212	A340-213
Type Design Capability	-	-	Cat 3 Precision approach and autoland
Option Capability (MOD)	Cat 2 Precision approach (41549) Cat 3 Precision approach and autoland (42100)	Cat 3 Precision approach and autoland (42100)	-

2. Conversions between Models

The following A/C Model conversions are approved:

- A340-211 aircraft can be converted into A340-212 by application of Airbus Service Bulletin A340-00-4029 (Mod 50472 – conversion of CFM56-5C2/F into CFM56-5C3/F).

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

- A340-211 (Mod. 42680 or Mod. 43092 or Mod 44752 or Mod 51296):
  CFM56-5C2, CFM56-5C2/4, CFM56-5C2/F, CFM56-5C2/F4, CFM56-5C2/G, CFM56-5C2/G4, CFM56-5C2/P engine can be intermixed on the same aircraft whatever the number and the position.
- A340-212 (Mod. 43574 or Mod 44752 or Mod 51296):
  CFM56-5C3/F, CFM56-5C3/F4, CFM56-5C3/G, CFM56-5C3/G4, CFM56-5C3/P engine can be intermixed on the same aircraft whatever the number or the position.
- A340-213 (Mod. 51296):
  CFM56-5C4, CFM56-5C4/P, engines can be intermixed on the same aircraft whatever the number or the position.
- A340-213 (Mod 45912/45913):
  A340-213 can be fitted with CFM56-5C2 engines by application of Airbus Industrie Service Bulletin 00-4016 (mod 45912) and revert to CFM56-5C4 engines installation by Airbus Industrie Service Bulletin 00-4017 (mod 45913).

3. Change of Weight Variants

N/A.

4. Other Notes

- A340-211 (CFM56-5C2/F or CFM56-5C2/F4 engines)
  A340-212 (CFM56-5C3/F or CFM56-5C3/F4 engines):

  The maximum permissible gas temperature at take-off and maximum continuous is extended to 965°C and 930°C respectively. However, the ECAM indication remains at 950°C and 915°C.
- A340-211 (CFM56-5C2/G or CFM56-5C2/G4 or CFM56-5C2/P engines)
  A340-212 (CFM 56-5C3/G or CFM56-5C3/G4 or CFM56-5C3/P engines)
  A340-213 (CFM 56-5C4 or CFM56-5C4/P or CFM56-5C4/1P engines):

  The maximum permissible gas temperature at take-off and maximum continuous is extended to 975°C and 940°C respectively, however the ECAM indications remain at 950°C and 915°C.
- A340-213 (Mod 44260):

  When CFM56-5C4/1 engines are installed, the thrust bump can be activated by Mod 44260.

Section 2 A340-300 Series

I. General

1. Type / Variant / Model

a) Type: A340
b) Model: A340-311, A340-312, A340-313

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

DGAC-F

4.2 Application Date

A340-311: 15 June 1988

A340-312: 15 June 1988

A340-313: 15 June 1988

4.3 State of Design Authority Type Certificate Date

A340-311: 22 December 1992

A340-312: 14 March 1994

A340-313: 16 March 1995

DGAC-F TC 183 remains a valid reference for models certified before 28 September 2003

5. UK CAA Type Validation Date

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A340-300 Series

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.015

3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.A.015.

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):

- 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.

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5. Special Conditions

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

- JAA Numbering:

  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

A340-300 Series

SC F-4 Static directional and lateral stability

SC F-5 Flight envelope protections

SC F-6 Normal load factor limiting system

SC G-5 Resistance to fire terminology (NPA 25D-181)

SC G-7 Function and reliability testing

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-38 Towbarless towing

SC S-148 Longitudinal touchdown performance limit and Minimum Approach Break-Off Height ((NPA AWO-8, this SC replaces S-48)

SC P-1 FADEC

SC P-2 Centre of gravity control system

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

- JAA Numbering:

SC P-27 Flammability Reduction System
(applicable from June 2010)

SC P-32 Fuel Tank Safety
(applicable from November 2013)

SC E-2 Crew rest
(applicable from February 1993)

SC E-5.1 Lower deck Lavatory
(applicable from August 2000)

SC E-8.1 Lower deck stowage area
(applicable from August 2000)

SC E-11 Bulk crew rest compartment
(applicable from January 2002)

SC E-19 F/C sliding screens
(applicable from September 2003)

SC E-28 Partial Bulk Crew Rest Compartment with attached to galley
(applicable from January 2009)

SC E-128 Improved flammability standards for thermal/acoustic insulation
(applicable from February 2009)

SC E-130 Application of heat release and smoke density requirements to seat materials
(applicable from February 2010)

SC E-1014 HIC compliance for front row seating (inflatable restraints)
(applicable from July 2007)

SC F-GEN-01 Installation of non-rechargeable lithium battery
(applicable as of 04 July 2019)

SC H-01 Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS
(applicable from May 2010)

- EASA Numbering:

  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-137 Security Protection of Aircraft Systems and Networks
  (applicable from May 2018)

6. Exemptions

None.

7. Deviations

None

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 S-48 Minimum Approach Break-off

  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 (or F-8.1) Accelerate stop distances
  - SC S-21 Brakes wear limits

  For A340-313 Weight Variant 020, 021, 024, 026, 027, 028 only:

  - SC F-8.1 is applicable instead of SC F-8.

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
  (applicable from July 2002)

  ESF E-17 Trolley Lift
  (applicable from November 2003)

  ESF E-18 Lower Deck galley compartment
  (applicable from November 2003)

  ESF E-21 Emergency exit marking reflectance
  (applicable from December 2004)

  ESF E-27 Forward facing seats over 18 degrees to A/C centreline
  (applicable from June 2009)

  ESF E-29 Fuselage burn through – aft pressure bulkhead
  (applicable from March 2009)

  ESF E-30 Fuselage burn through – belly fairing
  (applicable from April 2009)

ESF E-31 Fuselage burn through – bilge area
(applicable from April 2009)

ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis
(applicable from November 2013)

ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials, it provides an equivant level of safety to JAR 25.853(b)
(applicable from August 2005)

ESF F-128 Minimum Mass Flow of Supplemental Oxygen, it provides an equivalent level of safety to JAR 25.1443(c)
(applicable from November 2014).

ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System, it provides an equivalent level of safety to JAR 25.1441(c)
(applicable from November 2014).

- EASA Numbering:

ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking, it provides an equivalent level of safety to CS 25.811(e)(4) amdt 3, when the aircraft is equipped with symbolic exit signs
(applicable from July 2018).

9. Environmental Protection

9.1 Noise
ICAO Annex 16, Volume I

See TCDSN no UK.TC.A.00156.
Note: MOD 55005 originally used for compliance demonstration is not mandatory anymore.

9.2 Fuel Venting and Emissions

ICAO Annex 16, Volume II

10. Operational Suitability Data (OSD)

See SECTION 5 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements

- Approved Operational Suitability Data

III. Technical Characteristics and Operating Limitations

1. Type Design Definition

With CFM International (CFMI) engines

A340-311: 00F000A0311/C00
A340-312: 00F000A0312/C00
A340-313: 00F000A0313/C00

2. Description

Four turbo-fan, long range, twin-aisle, large category aeroplane.

3. Equipment

Refer to Type Design Definition.

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

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

4. Dimensions

-	Length:	63.66m	(208ft 10in)
-	Diameter:	5.64m	(18ft 6in)
-	Wing Span:	60.30m	(197ft 10in)
-	Height:	16.63 m	(54ft 7in)

5. Engine

5.1 Model

CFM International (CFMI) engines

A340-311: Four (4) CFM56-5C2 or CFM56-5C2/4 or CFM56-5C2/F or CFM56-5C2/F4 or CFM56-5C2/G or CFM56-5C2/G4 or CFM56-5C2/P turbofan engines

A340-312: Four (4) CFM56-5C3/F or CFM56-5C3/F4 or CFM56-5C3/G or CFM56-C3/G4 or CFM56-5C3/P turbofan engines

A340-313: Four (4) CFM56-5C4 or CFM56-5C4/1 or CFM56-5C4/P or CFM56-5C4/1P turbofan engines

5.2 Type Certificate

CFM International (CFMI) engines

FAA Engine TCDS: E37NE

EASA Engine TCDS: EASA.E.003

A340-300 Series

5.3 Limitations

5.3.1 Installed Engine Limits

CFM International (CFMI) engines

A/C Model	A340-211	A340-212	A340-213
Engine Model Data Sheet E37NE (FAA) E.003 (EASA)	CFM56-5C2 CFM56-5C2/4 CFM56-5C2/F CFM56-5C2/F4 CFM56-5C2/G CFM56-5C2/G4 CFM56-5C2/P	CFM56-5C3/F CFM56-5C3/F4 CFM56-5C3/G CFM56-5C3/G4 CFM56-5C3/P	CFM56-5C4 CFM56-5C4/1 CFM56-5C4/P CFM56-5C4/1P
Static thrust at sea level: - take-off (5mn) * (flat rated 30°C)	13,878 daN	14,456 daN	15,124 daN
- maximum continuous	12,588 daN	13,078 daN	13,371 daN
Approved Oils: see CFMI engine Service Bulletin N°79-001, latest revision			

* 10 minutes at take-off thrust allowed only in case of engine failure (at take-off or during go-around) in accordance with EASA TCDS paragraph VI-1.

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

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

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
CFMI: (Operating Instruction in CFMI Manuals)	JET A, JET A-1, JP5, JP8, N° 3 Jet Fuel, Jet B, JP-4 TS-1(GOST), RT(GOST)

The above mentioned fuels and additives 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).

See CFMI "Specific Operating Instructions", installation manual.

6.4 Hydraulics

Refer to the Consumable Material List (CML).

A340-300 Series

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

A340-311, A340-312 (except for WV 029) and A340-313

	3-TANK AEROPLANE	
	Usable fuel liters (kg)	Unusable fuel litres (kg)
WING TANK	91,056 (72,845)	245 (196)
CENTER	41,468 (33,174)	83 (66)
TRIM TANK	6,114 (4,891)	6 (5)
TOTAL	138,638 (110,910)	334 (267)

A340-312 WV 029

A340-313 WV 020 without MOD 49428 and without MOD 200118

	3 – TANK AIRPLANE		3 – TANK AIRPLANE WITH OPTIONAL ACTs MOD 42612	
	Usable fuel liters (kg)	Unusable fuel litres (kg)	Usable fuel liters (kg)	Unusable fuel litres (kg)
WING TANK	92,850 (74,280)	245 (196)	92,850 (74,280)	245 (196)
CENTER	42,420 (33,936)	83 (66)	42,420 (33,936)	83 (66)
TRIM TANK	6,230 (4,984)	6 (5)	6,230 (4,984)	6 (5)
TOTAL	141,500 (113,200)	334 (267)		
1 ACT in cargo hold	-	-	7,200 (5,760)	28 (22)
TOTAL with 1 ACT in cargo hold	-	-	148,700 (118,960)	362 (290)

A340-313 WV 020 without MOD 49428 and without MOD 200118 and MOD 202897

	3 – TANK AIRPLANE		3 – TANK AIRPLANE WITH OPTIONAL ACTs MOD 42612	
	Usable fuel liters (kg)	Unusable fuel litres (kg)	Usable fuel liters (kg)	Unusable fuel litres (kg)
WING TANK	92,850 (74,280)	245 (196)	92,850 (74,280)	245 (196)
CENTER	41,560 (33,248)	83 (66)	41,560 (33,248)	83 (66)
TRIM TANK	6,230 (4,984)	6 (5)	6,230 (4,984)	6 (5)
TOTAL	141,500 (113,200)	334 (267)	-	-
1 ACT in cargo hold	-	-	7,200 (5,760)	28 (22)
TOTAL with 1 ACT in cargo hold	-	-	147,840 (118,960)	362 (290)

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

A340-300 Series

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 : 37.5kt (gust included)
  Engine: Refer to AFM Limitation section
  Landing: A/C : 41kt (gust included)
  Engine: Refer to AFM Limitation section
- Tailwind: Takeoff: 10kt
  Landing: 10kt

12. Maximum Weight

Valid for A340-311, A340-312 and A340-313

Variant (MOD)	**000** (Basic)	**001** (41302)	**002** (44228)	**003** (44102)	**004** (44230)
MTOW (T)	235.5	257	260	257	260
MLW (T)	186	186	186	188	188
MZFW (T)	174	174	174	178	178

Valid for A340-312 only

Variant	**029** (53243)
MTOW (T)	260
MLW (T)	188
MZFW (T)	178

Valid for A340-313 only

Variant	**020** (43500)	**021** (44135)	**023** (44625)	**024** (45738)	**025** (44791)	**026** (46613)	**027** (46650)	**028** (49529)
MTOW (T)	271	275	262	275	260	275	271	276.5
MLW (T)	190	190	190	192	190	192	192	190
MZFW (T)	178	178	178	180	178	181	178	178

Variant	**050** (51808)	**051** (51809)	**052** (51810)	**053** (55566)	**054** (55677)
MTOW (T)	275	275	276.5	276.5	275
MLW (T)	192	192	192	192	192
MZFW (T)	180	181	181	183	183

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: 7.290m

15. Levelling Means

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

16. Minimum Flight Crew

Two (2): Pilot and Co-pilot.

17. Passenger Emergency Exit

Two Passenger Emergency Exit configurations:

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

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

The maximum number of passengers approved for emergency evacuation is:

- 375 Basic
- 440 Option (in Configuration A-A-A-A, MOD 40161).

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

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

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

A lower number of cabin crew may be approved by the 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

A340-300 Series

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 5: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin A340-32-4007.

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 34000 (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 5: DATA PERTINENT TO ALL MODELS.

V. Notes

1. All Weather Capability

A/C Model	CFMI Engines		
	A340-311	A340-312	A340-313
Type Design Capability	-	-	Cat 3 Precision approach and autoland
Option Capability (MOD)	Cat 2 Precision approach (41549) Cat 3 Precision approach and autoland (42100)	Cat 3 Precision approach and autoland (42100)	-

2. Conversions between Models

The following A/C Model conversions are approved:

- Conversion of A340-311 into A340-312:
  A340-311 aircraft can be converted into A340-312 by application of Airbus Service Bulletin:

  A340-00-4014 (Mod 45247).

- Conversion of A340-312 into A340-311:
  A340-312 aircraft can be converted into A340-311 by application of Airbus Service Bulletins:

  A340-00-4028 (Mod 47596 – Conversion of CFM56-5C3/F into CFM56-5C2).

  A340-00-4026 (Mod 47427 – Conversion of CFM56-5C3/F into CFM56-5C2/F).

- Conversion of A340-313 into A340-312:
  A340-313 aircraft can be converted into A340-312 by application of Airbus Service Bulletin:

  A340-00-4035 (Mod 53452)

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

- A340-311 (Mod. 42680 or Mod. 43092 or Mod 44752 or Mod 51296):
  CFM56-5C2, CFM56-5C2/4, CFM56-5C2/F, CFM56-5C2/F4, CFM56-5C2/G, CFM56-5C2/G4, CFM56-5C2/P engine can be intermixed on the same aircraft whatever the number and the position.
- A340-312 (Mod. 43574 or Mod 44752 or Mod 51296):
  CFM56-5C3/F, CFM56-5C3/F4, CFM56-5C3/G, CFM56-5C3/G4, CFM56-5C3/P engine can be intermixed on the same aircraft whatever the number or the position.
- A340-313 (Mod. 51296):
  CFM56-5C4, CFM56-5C4/P, engine can be intermixed on the same aircraft whatever the number or the position.

-- A340-313 (Modification 45912/45913)
  A340-313 can be fitted with CFM56-5C2 engines by application of Airbus Industrie Service Bulletin 00-4016 (mod 45912) and revert to CFM56-5C4 engines installation by Airbus Industrie Service Bulletin 00-4017 (mod 45913).

3. Change of Weight Variants

N/A.

4. Other Notes

- A340-311 (CFM56-5C2/F or CFM56-5C2/F4 engines)
  A340-312 (CFM56-5C3/F or CFM56-5C3/F4 engines):

  The maximum permissible gas temperature at take-off and maximum continuous is extended to 965°C and 930°C respectively. However, the ECAM indication remains at 950°C and 915°C.

- A340-311 (CFM56-5C2/G or CFM56-5C2/G4 or CFM56-5C2/P engines)
  A340-312 (CFM 56-5C3/G or CFM56-5C3/G4 or CFM56-5C3/P engines)
  A340-313 (CFM 56-5C4 or CFM56-5C4/P or CFM56-5C4/1P engines):

  The maximum permissible gas temperature at take-off and maximum continuous is extended to 975°C and 940°C respectively, however the ECAM indications remain at 950°C and 915°C.

- A340-313 (Mod 44260):

  When CFM56-5C4/1 engines are installed, the thrust bump can be activated by Mod 44260.

- A340-313 WV 027 Short Range Variant

  The A340-313 WV 027 aircraft can be operated as short range variant and have their new design service goal increased to 30000 cycles respectively 60000 FH providing the following condition is fulfilled: “These aircraft are maintained according to the specific temporary inspection program as per letter AI/SE-M 95A.1372/98 and the revised MRB for SSIs’ quoted post modification 46651“.

Section 3 A340-600 Series

I. General

1. Type / Variant / Model

a) Type: A340
b) Model: A340-642, A340-643

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

DGAC-F

4.2 Application Date

A340-642: 31 December 1997

4.3 State of Design Authority Type Certificate Date

A340-643: 21 May 2002

DGAC-F TC 183 remains a valid reference for models certified before 28 September 2003.

5. EASA Type Certification

5.1 State of Design Authority

EASA

5.2 Application Date

A340-643: 31 December 1997

5.3. State of Design Authority Type Certificate Date

A340-643: 11 April 2006

6. UK CAA Type Validation Date

Prior to 01 January 2021, application dates for type certification are covered by DGAC-F or 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 or 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.

II. Certification Basis

1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 31 December 1997

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

EASA.A.015

3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.A.015.

4. UK CAA Airworthiness Requirements

Original Airworthiness Requirements (at time of TC):

- Certification Requirements

  JAR 25 Change 14

  Except JAR 25.365(g) which remains at Change 13 for the design of the cockpit wall.

- All Weather Operations

  JAR AWO change 2 plus:

  - Orange Paper AWO 96/1

Additional Airworthiness Requirements (added post TC):

- 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.

5. Special Conditions

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

- JAA Numbering:

  SC A-1001 Revised Loads Requirements (NPA 25C20 and NPA 25C282)

  SC A-1002 Interaction of systems and structure

  SC A-1003 Design Maneuver Requirements

  SC A-1004 Design Dive Speed

  SC A-5 Limit pilot forces and torque

  SC A-1006 Grounds Loads and Conditions for Central Landing Gear

  SC A-1011 Vibration, Buffet and Aeroelastic Requirements (NPA25BCD236)

  SC A-1017 Braked Roll Conditions (NPA 25C-276)

  SC A-1020 Shock Absorption test (NPA 25D-279)

  SC F-1001 Stalling and scheduled operating speeds

  SC F-2 Motion and effects of cockpit controls

  SC F-1003 Static longitudinal stability

A340-600 Series

SC F-4	Static directional and lateral stability
SC F-5	Flight envelope protections
SC F-6	Normal load factor limiting system
SC F-1008	Accelerate stop distances
SC F-1014	Flap Gates (NPA 25B238)
SC G-7	Function and Reliability Testing
SC P-1018	Engine Sustained Imbalance
SC P-1020	APU Instruments (NPA 25J246)
SC P-1021	Windmilling without oil (NPA 25E268)
SC P-1022	Falling and Blowing Snow (NPA 25E288)
SC S-10.2	Effects of external radiations upon aircraft systems
SC S-1013	Autothrust system
SC S-16	Control Signal Authority
SC S-18	Electrical Flight Control unusual features
SC S-38	Towbarless towing
SC S-148	Longitudinal touchdown performance limit and Minimum Approach Break-Off Height ((NPA AWO-8, this SC replaces S-48)
SC S-1021	Brakes (partial NPA 25D-291)

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

- JAA Numbering:

SC E-2	Crew rest (applicable from February 1993)
SC E-5.1	Lower deck Lavatory (applicable from August 2000)
SC E-8.1	Lower deck stowage area (applicable from August 2000)
SC E-11	Bulk crew rest compartment (applicable from January 2002)
SC E-19	F/C sliding screens (applicable from September 2003)
SC E-28	Partial Bulk Crew Rest Compartment with attached to galley (applicable from January 2009)
SC E-128	Improved flammability standards for thermal/acoustic insulation (applicable from February 2009)
SC E-130	Application of heat release and smoke density requirements to seat materials (applicable from February 2010)
SC E-1014	HIC compliance for front row seating (inflatable restraints) (applicable from July 2007)
SC E-1023	Side Facing Seats with Inflatable Restraints (applicable from December 2005)
SC F-GEN-01	Installation of non-rechargeable lithium battery (applicable as of 04 July 2019)
SC H-01	Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS (applicable from May 2010)
SC O-1001	Ferrying one engine unserviceable (applicable from Oct 2002)

A340-600 Series

SC P-27 Flammability Reduction System
(applicable from June 2010)

- EASA Numbering:

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-137 Security Protection of Aircraft Systems and Networks
(applicable from May 2018)

6. Exemptions

Temporary exemption (A340-642 only):

P-1024 ECAM EGT indication (cancelled by modification 50560).

7. Deviations

None

8. Equivalent Safety Findings

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

- JAA Numbering:

ESF A-1015 Checked Pitching Maneuver Loads

ESF A-1021 Engine Failure Loads

ESF A-1023 Continuous Turbulence

ESF A-1024 Casting Factors

ESF A-1026 Proof of structure

ESF S-45 Oil temperature indication

ESF S-148 Longitudinal touch down performance and Minimum Approach Break-off Height deletion (NPA AWO 8)

ESF S-1059 Hydraulics System

ESF S-1065 Packs Off Operation

ESF S-1066 Excess deviation alert

ESF S-1070 AFM – Runway Visual Range Limits

ESF P-1008 Fuel Tank Access Covers

ESF P-1009 Rolls-Royce Trent 500 Turbine Overheat Detection

ESF P-1011 Thrust Reverser Testing

The following Special Condition provide an equivalent safety level to JAR 25 accelerate-stop and brakes qualification requirements (NPA 25 B, D, G 244)

- SC F-1008 Accelerate stop distances
- SC F-1014 Flap Gates (NPA 25B238)
- SC S-1021 Brakes (partial NPA 25D-291).

A340-600 Series

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
  (applicable from July 2002)

  ESF E-17 Trolley Lift
  (applicable from November 2003)

  ESF E-18 Lower Deck galley compartment
  (applicable from November 2003)

  ESF E-21 Emergency exit marking reflectance
  (applicable from December 2004)

  ESF E-27 Forward facing seats over 18 degrees to A/C centreline
  (applicable from June 2009)

  ESF E-29 Fuselage burn through – aft pressure bulkhead
  (applicable from March 2009)

  ESF E-30 Fuselage burn through – belly fairing
  (applicable from April 2009)

  ESF E-31 Fuselage burn through – bilge area
  (applicable from April 2009)

  ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis
  (applicable from November 2013)

  ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials, it provides an equivant level of safety to JAR 25.853(b)
  (applicable from August 2005)

  ESF F-128 Minimum Mass Flow of Supplemental Oxygen, it provides an equivalent level of safety to JAR 25.1443(c)
  (applicable from November 2014).

  ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System, it provides an equivalent level of safety to JAR 25.1441(c)
  (applicable from November 2014).

- EASA Numbering:

  ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking, it provides an equivalent level of safety to CS 25.811(e)(4) amdt 3, when the aircraft is equipped with symbolic exit signs
  (applicable from July 2018).

9. Environmental Protection

9.1 Noise

ICAO Annex 16, Volume I

See TCDSN no UK.TC.A.00156.

Note: MOD 55005 originally used for compliance demonstration is not mandatory anymore.

9.2 Fuel Venting and Emissions

ICAO Annex 16, Volume II

10. Operational Suitability Data (OSD)

See SECTION 5 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements

- Approved Operational Suitability Data

III. Technical Characteristics and Operating Limitations

1. Type Design Definition

With Rolls Royce (RR) engines

A340-642: EAL 415.0410/02

A340-643: F00RP0604310

2. Description

Four turbo-fan, 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:	74.77m	(245ft 3in)
-	Diameter:	5.64m	(18ft 6in)
-	Wing Span:	63.45m	(208ft 2in)
-	Height:	17.29m	(56ft 9in)

5. Engine

5.1 Model

Rolls Royce (RR) engines

A340-642: Four (4) Rolls Royce RB211 Trent 556-61 or RB211 Trent 556A2-61 turbofan engines

A340-643: Four (4) Rolls Royce RB211 Trent 560A2-61 turbofan engines

5.2 Type Certificate

Rolls Royce (RR) engines

UK CAA Engine TCDS: 1056

EASA Engine TCDS: EASA.E.060

A340-600 Series

5.3 Limitations

5.3.1 Installed Engine Limits

Rolls Royce (RR) engines

A/C Model	A340-642	A340-643
Engine Model Data Sheet EASA.E.060	RB211 Trent 556-61 RB211 Trent 556A2-61	RB211 Trent 560A2-61
Static thrust at sea level: - take-off (5mn)* - maximum continuous	 58,462 lbs 44,359 lbs	 61,902 lbs 44,359 lbs
Approved Oils: Refer to the RR Engine Operating Instructions		

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

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

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

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
RR: (Operating Instruction in RR Manuals)	JET A, JET A-1, JP5, JP8, N° 3 Jet Fuel, TS-1(GOST), RT(GOST)

The above mentioned fuels and additives 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).

See Rolls Royce “RB211 Specific Operating Instructions for Trent 500", installation manual.

6.4 Hydraulics

Refer to the Consumable Material List (CML).

A340-600 Series

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

A340-642 without mod 53000 and without mod 54679

		3 – TANK AIRPLANE		3 – TANK AIRPLANE WITH OPTIONAL ACTs MOD 48487	
		Usable fuel litres (kg)	Unusable fuel litres (kg)	Usable fuel LWW litres (kg)	Unusable fuel LWW litres (kg)
CENTER		55,133* (44,106)	240* (192)	55,133 (44,106)	240 (192)
WING TANK	Inner 1 / 4	49,002 (39,202)	68 (54)	69,610 (55,688)	190 (152)
	Inner 2 / 3	69,514 (55,611)	230 (184)	49,432 (39,546)	48 (38)
	Outer	12,290 (9,832)	34 (27)	12,620 (10,096)	44 (35)
	Total	130,806 (104,645)	332 (265)	131,662 (105,329)	282 (225)
TRIM TANK	FCMC before FL 6.0	8,361 (6,689)	25 (20)	7,986 (6,389)	25 (20)
	FCMC FL 6.0 up to FL 7.0	7,986 (6,389)			
	FCMC FL 7.1 onwards	7,886 (6,309)		7,886 (6,309)	
TOTAL	FCMC before FL 6.0	194,300 (155,440)	597 (477)	194,781 (155,825)	547 (437)
	FCMC FL 6.0 up to FL 7.0	193,925 (155,140)			
	FCMC FL 7.1 onwards	193,825 (155,060)		194,681 (155,745)	

* For A/C not fitted with Jet Pumps (Mod 50812), values for CENTER Tank are:

54,969 litres (43,975 kgs) for usable and
404 litres (323 kgs) for unusable.

Total are modified as follows:

TOTAL	FCMC before FL 6.0	194,136 (155,309)	761 (608)	194,781 (155,825)	547 (437)
	FCMC FL 6.0 up to FL 7.0	193,136 (155,309)			
	FCMC FL 7.1 onwards	193,661 (154,929)		194,681 (155,745)	

A340-642 with mod 54679

A maximum total of 2,800 litres can be added to the values identified in paragraph above starting refueling Center tank and continuing with Inner Tanks as necessary, according to the following added quantities:

- Center tank up to 1,050 litres
- Inner tank 2 / 3 up to 550 litres each
- Inner tank 1 / 4 up to 325 litres each

A340-600 Series

A340-642 with mod 53000, A340-643

		3 – TANK AIRPLANE	
		Usable fuel litres (kg)	Unusable fuel litres (kg)
CENTER		55,202 (44,161)	171 (137)
WING TANK	Inner 1 / 4	49,178 (39,342)	56 (45)
	Inner 2 / 3	69,648 (55,718)	220 (176)
	Outer	12,442 (9,954)	54 (43)
	Total	131,268 (105,014)	330 (264)
TRIM TANK	Basic	7,886 (6,309)	25 (20)
	Extended (Mod 54382)	9,509 (7,607)	45 (36)
TOTAL	Basic Trim Tank	194,356 (155,484)	526 (421)
	Extended Trim Tank (Mod 54382)	195,979 (156,783)	546 (437)

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 : 35kt (gust included)
  Engine: Refer to AFM Limitation section
  Landing: A/C : 37kt (gust included)
  Engine: Refer to AFM Limitation section
- Tailwind: Takeoff: 10kt
  Landing: 10kt

A340-600 Series

12. Maximum Weight

Valid for A340-642

Variant (MOD)	**000** (Basic)	**001** (50312)	**101** (53043)	**102** (54805)	**103** (57713)
MTOW (T)	365	368	380	368	365
MLW (T)	256	259	265	259	265
MZFW (T)	242	245	251	245	251

Valid for A340-643

Variant (MOD)	**101** (53043)	**102** (54805)	**103** (57713)
MTOW (T)	380	368	365
MLW (T)	265	259	265
MZFW (T)	251	245	251

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: 8.370m

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-III-A-A: Basic 4 Type A passenger doors and 1 Emergency Exit Type II

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

The maximum number of passengers approved for emergency evacuation is 440.

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

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

Maximum Passenger Seating Capacity (MPSC) & Cabin Configuration	Minimum Cabin crew
440	9
400	8

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

19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)
Forward	30,482
Aft	22,861
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 HONEYWELL E. & S. 331-600[A] (Model Specification 31-15857-01).

Oils: refer to applicable approved Manuals

22. Life-limited parts

Refer to Airworthiness Limitation Section

See SECTION 5: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin.

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 34000 (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 5: DATA PERTINENT TO ALL MODELS.

V. Notes

1. All Weather Capability

A/C Model	RR Engines	
	A340-642	A340-643
Type Design Capability	-	Cat 3 Precision approach and autoland
Option Capability (MOD)	Cat 3 Precision approach and autoland (50321)	-

2. Conversions between Models

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

- A340-642

  RB211 Trent 556-61, RB211 Trent 556A2-61 engines can be intermixed on the same aircraft whatever the number or the position.

3. Change of Weight Variants

N/A.

Section 4 A340-500 Series

I. General

1. Type / Variant / Model

a) Type: A340
b) Model: A340-542, A340-542

2. Airworthiness Category

Large Aeroplanes

Performance Category A

3. Manufacturer

AIRBUS

2 Rond-Point Emile Dewoitine

31700 Blagnac FRANCE

4. State of Design Authority Type Certification

4.1 State of Design Authority

DGAC-F

4.2 Application Date

A340-541: 31 December 1997

4.3 State of Design Authority Type Certificate Date

A340-541: 03 December 2002

DGAC-F TC 183 remains a valid reference for models certified before 28 September 2003.

5. EASA Type Certification

5.1 State of Design Authority

EASA

5.2 Application Date

A340-542: 31 December 1997

5.3. State of Design Authority Type Certificate Date

A340-542: 15 February 2007

6. UK CAA Type Validation Date

Prior to 01 January 2021, application dates for type certification are covered by DGAC-F or 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 or 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

A340-500 Series

II. Certification Basis

1. Reference Date for determining the applicable requirements

Reference Application Date for EASA Certification: 31 December 1997

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

EASA.A.015

3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.A.015.

4. UK CAA Airworthiness Requirements

Original Airworthiness Requirements (at time of TC):

- Certification Requirements

  JAR 25 Change 14

  Except JAR 25.365(g) which remains at Change 13 for the design of the cockpit wall.

- All Weather Operations

  JAR AWO change 2 plus:

  - Orange Paper AWO 96/1

Additional Airworthiness Requirements (added post TC):

- 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.

5. Special Conditions

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

- JAA Numbering:

  SC A-1001 Revised Loads Requirements (NPA 25C20 and NPA 25C282)

  SC A-1002 Interaction of systems and structure

  SC A-1003 Design Maneuver Requirements

  SC A-1004 Design Dive Speed

  SC A-5 Limit pilot forces and torque

  SC A-1006 Grounds Loads and Conditions for Central Landing Gear

  SC A-1011 Vibration, Buffet and Aeroelastic Requirements (NPA25BCD236)

  SC A-1017 Braked Roll Conditions (NPA 25C-276)

  SC A-1020 Shock Absorption test (NPA 25D-279)

  SC F-1001 Stalling and scheduled operating speeds

  SC F-2 Motion and effects of cockpit controls

  SC F-1003 Static longitudinal stability

A340-500 Series

SC F-4 Static directional and lateral stability

SC F-5 Flight envelope protections

SC F-6 Normal load factor limiting system

SC F-1008 Accelerate stop distances

SC F-1014 Flap Gates (NPA 25B238)

SC G-7 Function and Reliability Testing

SC P-1016 Rear Centre Tank and Tyre Failure

SC P-1018 Engine Sustained Imbalance

SC P-1020 APU Instruments (NPA 25J246)

SC P-1021 Windmilling without oil (NPA 25E268)

SC P-1022 Falling and Blowing Snow (NPA 25E288)

SC S-10.2 Effects of external radiations upon aircraft systems

SC S-1013 Autothrust system

SC S-16 Control Signal Authority

SC S-18 Electrical Flight Control unusual features

SC S-38 Towbarless towing

SC S-148 Longitudinal touchdown performance limit and Minimum Approach Break-Off Height ((NPA AWO-8, this SC replaces S-48)

SC S-1021 Brakes (partial NPA 25D-291)

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

- JAA Numbering:

SC E-2 Crew rest
(applicable from February 1993)

SC E-5.1 Lower deck Lavatory
(applicable from August 2000)

SC E-8.1 Lower deck stowage area
(applicable from August 2000)

SC E-11 Bulk crew rest compartment
(applicable from January 2002)

SC E-19 F/C sliding screens
(applicable from September 2003)

SC E-28 Partial Bulk Crew Rest Compartment with attached to galley
(applicable from January 2009)

SC E-128 Improved flammability standards for thermal/acoustic insulation
(applicable from February 2009)

SC E-130 Application of heat release and smoke density requirements to seat materials
(applicable from February 2010)

SC E-1014 HIC compliance for front row seating (inflatable restraints)
(applicable from July 2007)

SC E-1023 Side Facing Seats with Inflatable Restraints
(applicable from December 2005)

SC F-GEN-01 Installation of non-rechargeable lithium battery
(applicable as of 04 July 2019)

SC H-01 Enhanced Airworthiness Programme for Aeroplane Systems - ICA on EWIS
(applicable from May 2010)

A340-500 Series

SC O-1001 Ferrying one engine unserviceable
(applicable from Oct 2002)

SC P-27 Flammability Reduction System
(applicable from June 2010)

- EASA Numbering:

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-137 Security Protection of Aircraft Systems and Networks
(applicable from May 2018)

6. Exemptions

None.

7. Deviations

None

8. Equivalent Safety Findings

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

- JAA Numbering:

ESF A-1015 Checked Pitching Maneuver Loads

ESF A-1021 Engine Failure Loads

ESF A-1023 Continuous Turbulence

ESF A-1024 Casting Factors

ESF A-1026 Proof of structure

ESF S-45 Oil temperature indication

ESF S-148 Longitudinal touch down performance and Minimum Approach Break-off Height deletion (NPA AWO 8)

ESF S-1059 Hydraulics System

ESF S-1065 Packs Off Operation

ESF S-1066 Excess deviation alert

ESF S-1070 AFM – Runway Visual Range Limits

ESF P-1008 Fuel Tank Access Covers

ESF P-1009 Rolls-Royce Trent 500 Turbine Overheat Detection

ESF P-1011 Thrust Reverser Testing

The following Special Condition provide an equivalent safety level to JAR 25 accelerate-stop and brakes qualification requirements (NPA 25 B, D, G 244)

- SC F-1008 Accelerate stop distances
- SC F-1014 Flap Gates (NPA 25B238)
- SC S-1021 Brakes (partial NPA 25D-291).

A340-500 Series

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
  (applicable from July 2002)

  ESF E-17 Trolley Lift
  (applicable from November 2003)

  ESF E-18 Lower Deck galley compartment
  (applicable from November 2003)

  ESF E-21 Emergency exit marking reflectance
  (applicable from December 2004)

  ESF E-27 Forward facing seats over 18 degrees to A/C centreline
  (applicable from June 2009)

  ESF E-29 Fuselage burn through – aft pressure bulkhead
  (applicable from March 2009)

  ESF E-30 Fuselage burn through – belly fairing
  (applicable from April 2009)

  ESF E-31 Fuselage burn through – bilge area
  (applicable from April 2009)

  ESF E-134 Installation of seats that make an angle of more than 18° with the aircraft longitudinal axis
  (applicable from November 2013)

  ESF E-1022 Improved flammability standards for thermal / acoustic insulation materials, it provides an equivant level of safety to JAR 25.853(b)
  (applicable from August 2005)

  ESF F-128 Minimum Mass Flow of Supplemental Oxygen, it provides an equivalent level of safety to JAR 25.1443(c)
  (applicable from November 2014).

  ESF F-129 Crew Determination of Quantity of Oxygen in Passenger Oxygen System, it provides an equivalent level of safety to JAR 25.1441(c)
  (applicable from November 2014).

- EASA Numbering:

  ESF D-101 Green arrow and “Open” Placard of Emergency Exit marking, it provides an equivalent level of safety to CS 25.811(e)(4) amdt 3, when the aircraft is equipped with symbolic exit signs
  (applicable from July 2018).

9. Environmental Protection

9.1 Noise

ICAO Annex 16, Volume I

See TCDSN no UK.TC.A.00156.

Note: MOD 55005 originally used for compliance demonstration is not mandatory anymore.

9.2 Fuel Venting and Emissions

ICAO Annex 16, Volume II

10. Operational Suitability Data (OSD)

See SECTION 5 DATA PERTINENT TO ALL MODELS for:

- Operational Suitability Requirements

- Approved Operational Suitability Data

III. Technical Characteristics and Operating Limitations

1. Type Design Definition

With Rolls Royce (RR) engines

A340-541: EAL 415.1094/02

A340-542: EAL F01M06010396

2. Description

Four turbo-fan, 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:	67.33m	(220ft 11in)
-	Diameter:	5.64m	(18ft 6in)
-	Wing Span:	63.45m	(208ft 2in)
-	Height:	17.11m	(56ft 1in)

5. Engine

5.1 Model

Rolls Royce (RR) engines

A340-541: Four (4) Rolls Royce RB211 Trent 553-61 or RB211 Trent 553A2-61 turbofan engines

A340-542: Four (4) Rolls Royce RB211 Trent 556A2-61 turbofan engines

5.2 Type Certificate

Rolls Royce (RR) engines

UK CAA Engine TCDS: 1056

EASA Engine TCDS: EASA.E.060

A340-500 Series

5.3 Limitations

5.3.1 Installed Engine Limits

Rolls Royce (RR) engines

A/C Model	A340-541	A340-542
Engine Model Data Sheet EASA.E.060	RB211 Trent 553-61 RB211 Trent 553A2-61	RB211 Trent 556A2-61
Static thrust at sea level: - take-off (5mn)* - maximum continuous	 55,780 lbs 44,359 lbs	 58,462 lbs 44,359 lbs
Approved Oils: Refer to the RR Engine Operating Instructions		

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

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

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

6.1 Fuel

The following fuels may be used:

ENGINES	KEROSENE DESIGNATION
RR: (Operating Instruction in RR Manuals)	JET A, JET A-1, JP5, JP8, N° 3 Jet Fuel, TS-1(GOST), RT(GOST)

The above mentioned fuels and additives 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).

See Rolls Royce “RB211 Specific Operating Instructions for Trent 500", installation manual.

6.4 Hydraulics

Refer to the Consumable Material List (CML).

A340-500 Series

7. Fluid capacities

7.1 Fuel

Fuel quantity (0.8 kg / litre):

A340-541 without mod 53000

		3 – TANK AIRPLANE		3 – TANK AIRPLANE WITH OPTIONAL ACTs MOD 48487	
		Usable fuel litres (kg)	Unusable fuel litres (kg)	Usable fuel LWW litres (kg)	Unusable fuel LWW litres (kg)
CENTER		55,133 (44,106)	240 (192)	55,133 (44,106)	240 (192)
WING TANK	Inner 1 / 4	49,002 (39,202)	68 (54)	49,432 (39,546)	48 (38)
	Inner 2 / 3	69,514 (55,611)	230 (184)	69,610 (55,688)	190 (152)
	Outer	12,290 (9,832)	34 (27)	12,620 (10,096)	44 (35)
	Total	130,806 (104,645)	332 (265)	131,662 (105,330)	282 (225)
REAR CENTER 5 FRAME	Without liner (Mod 51344)	19,873 (15,898)	10 (8)	19,873 (15,898)	10 (8)
	With liner (Mod 51344)	19,741 (15,793)	100 (80)	19,741 (15,793)	100 (80)
REAR CENTER 7 FRAME				27,329 (21,863)	241 (193)
TRIM TANK	FCMC FL 7.1 onwards	7,886 (6,309)	25 (20)	7,886 (6,309)	25 (20)
TOTAL (with RCT 5 Frame)	Without liner (Mod 51344)	213,698 (170,958)	597 (485)	214,554 (171,643)	557 (445)
	With liner (Mod 51344)	213,566 (170,958)	697 (557)	214,422 (171,538)	647 (517)
TOTAL (with RCT 7 Frame)				222,010 (177,608)	788 (630)

For aircraft with FCMC FL 6.0 up to FL 7.0, trim tank and total usable fuel quantities are increased by 100 liters (80 kg).

A340-541 with mod 53000, A340-542

		3 – TANK AIRPLANE	
		Usable fuel litres (kg)	Unusable fuel litres (kg)
CENTER		55,202 (44,161)	171 (137)
WING TANK	Inner 1 / 4	49,178 (39,342)	56 (45)
	Inner 2 / 3	69,648 (55,718)	220 (176)
	Outer	12,442 (9.954)	54 (43)
	Total	131,268 (105,014)	330 (264)
REAR CENTER 5 FRAME	With liner (Mod 51344)	19,741 (15,793)	100 (80)
TRIM TANK	Extended	9,509 (7,607)	45 (36)
TOTAL (with Extended trim tank and RCT 5 Frame)		215,720 (172,576)	646 (517)

7.2 Oil

A340-500 Series

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 : 35kt (gust included)
  Engine: Refer to AFM Limitation section
  Landing: A/C : 37kt (gust included)
  Engine: Refer to AFM Limitation section
- Tailwind: Takeoff: 10kt
  Landing: 10kt

12. Maximum Mass

Valid for A340-541

Variant (MOD)	**000** (51000)	**001** (51080)	**002** (50791)	**003*** (54237)	**004*** (56719)	**101** **(53039)**	**102** **(54806)**	**103** **(55642)**
MTOW (T)	368	372	372	374	374	380	372	372
MLW (T)	240	243	243	231	243	246	243	246
MZFW (T)	225	230	230	218	218	232	230	232

(*)WV003 and WV004 are only certified for those aircraft equipped with the Light Weight Wings and the 7-frame RCT.

Valid for A340-542

Variant	**101** (53039)	**102** (54806)	**103** (55642)
MTOW (T)	380	372	372
MLW (T)	246	243	246
MZFW (T)	232	230	232

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: 8.370m

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

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

The maximum number of passengers approved for emergency evacuation is 375.

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
375	8

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

19. Maximum Baggage/ Cargo Loads

Cargo compartment	Maximum load (kg)
Forward	24,494
Aft	16,330
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 HONEYWELL E. & S. 331-600[A] (Model Specification 31-15857-01).

Oils: refer to applicable approved Manuals

22. Life-limited parts

Refer to Airworthiness Limitation Section

See SECTION 5: DATA PERTINENT TO ALL MODELS.

23. Wheels and Tyres

Refer to Airbus Service Bulletin.

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 34000 (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 5: DATA PERTINENT TO ALL MODELS.

V. Notes

1. All Weather Capability

A/C Model	RR Engines	
	A340-541	A340-542
Type Design Capability	-	Cat 3 Precision approach and autoland
Option Capability (MOD)	Cat 3 Precision approach and autoland (51315)	-

2. Conversions between Models

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

- Conversion from A340-541 to A340-542 and engines change from 553A2-61 to 556A2-61: A340-541 aircraft can be converted into A340-542 aircraft by application of Airbus Service Bulletin A340-00-5010 (Mod 58770).
- Conversion from A340-542 to A340-541 and engines change from 556A2-61 to 553A2-61:

  A340-542 aircraft can be converted into A340-541 aircraft by application of Airbus Service Bulletin A340-00-5009 (Mod 58771).

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

- A340-541

  RB211 Trent 553-61, RB211 Trent 553A2-61 engines can be intermixed on the same aircraft whatever the number or the position.

Section 5 Data Pertinent to All Models

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

I. Maintenance Instructions and Airworthiness Limitations

The complete set of Instructions for Continued Airworthiness is identified in paragraph 2 of the Aircraft Maintenance Manual introduction.

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:

- A340 Maintenance Review Board Report (latest published 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 A340 Airworthiness Limitations Section (ALS) sub-parts 1-2 and 1-3 approved by EASA;

Applicable Document Reference:

- Ref: A340 ALS Part 1 (latest published revision)
- Ref: A340 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 A340 Airworthiness Limitations Section (ALS) Part 2 approved by EASA;

Applicable Document Reference:

- Ref: A340 ALS Part 2 (latest published revision)
- Ref: A340 ALS Part 2 Variations (latest published set of variations)

- ALS PART 3: CERTIFICATION MAINTENANCE REQUIREMENTS (CMR)

Certification Maintenance Requirements are provided in the A340 Airworthiness Limitations Section (ALS) Part 3 approved by EASA;

Applicable Document Reference:

- Ref: A340 ALS Part 3 (latest published revision)
- Ref: A340 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 A340 Airworthiness Limitation Section (ALS) Part 4 approved by EASA;

Applicable Document Reference:

- Ref: A340 ALS Part 4 (latest published revision)
- Ref: A340 ALS Part 4 Variations (latest published set of variations)

- ALS PART 5: FUEL AIRWORTHINESS LIMITATIONS (FAL)

Fuel Airworthiness Limitations are provided in the A340 Airworthiness Limitations Section (ALS) Part 5 approved by EASA;

Applicable Document Reference:

- Ref: A340 ALS Part 5 (latest published revision)

Data Pertinent to All Models

- Ref: A340 ALS Part 5 Variations (latest published set of variations)

II. Operational Suitability Data (OSD)

The Operational Suitability Requirements and Data listed below are applicable to all A340 models:

The Operational Suitability Data elements (e.g. FCD, CCD, MMEL) as listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.015 in accordance with Commission Regulation (EU) 748/2012, as amended.

These OSD elements and any future revisions are either accepted under Article 13 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

1. Flight Crew Data (FCD)

- Operational Suitability Requirements:

  CS-FCD Initial Issue

- Approved Operational Suitability Data:

  a. FCD ref. F01RP1536752 Issue 1 dated 07 December 2015 or later approved revisions

  b. Required for Entry into Service by UK operator

2. Cabin Crew Data (CCD)

- Operational Suitability Requirements:

  SC A-01-CCD OSD Cabin Crew Data (CCD) Certification Basis

  SC CCD-01 OSD Changes to A340 Cabin Crew Data

- Approved Operational Suitability Data:

  a. CCD ref. LR01RP1534111 Issue 1 dated 16th November 2015 or later approved revisions

  b. Required for Entry into Service by UK operator

  c. A340-200 and A340-300 are one aircraft type.

  A340-500 and A340-600 are variants of the A340-200 and A340-300.

3. Master Minumum Equipment List (MMEL)

- Operational Suitability Requirements:

  JAR MMEL / MEL Subpart B amendment 1

- Approved Operational Suitability Data:

  a. MMEL Ref. MMEL STL 33100 Revision November 2015 or later approved revisions

  b. Required for Entry into Service by UK operator

III. Part-26 Compliance Information

For all models, compliance with point 26.300(a) of UK Regulation (EU) 2015/640 Annex 1 (Part 26) has been accepted by UK CAA as a result of the demonstration of compliance to Commission Regulation (EU) 2015/640 Annex 1 (Part-26), as amended, and approval by EASA, by complying with points 26.301, 26.302, 26.303, 26.304, 26.306, 26.307, 26.308, 26.309.

Note that compliance to point 26.305 is ensured by compliance to Part-21.A.65.

Annex to TCDS UK.TC.A.00156

This Annex was created to make public non-proprietary data contained in selected UK specific Special Conditions, Deviations, or Equivalent Safety Findings that are part of the applicable Certification Basis as recorded in TCDS UK.TC.A.00156

Only those Conditions, Deviations, or Equivalent Safety Findings raised on or after 01 January 2021 shall be included in this Explanatory Note.

For Special Conditions, Deviations or Equivalent Safety Findings included as part of the Certification Basis prior to 01 January 2021, refer to the EASA Explanatory Note to EASA TCDS EASA.A.015.

I. Special Conditions

None

II. Deviations

None

III. Equivalent Safety Findings

None

Administration

I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
A/C	Aircraft
ACNS	Airborne Communication, Navigation, Surveillance
AFM	Aeroplane Flight Manual
ALI	Airworthiness Limitation Item
ALS	Airworthiness Limitation Section
AMC	Acceptable Means of Compliance
APU	Auxiliary Power Unit
ASM	Aging Systems Maintenance
AWO	All Weather Operations
CAA	Civil Aviation Authority
CCD	Cabin Crew Data
CML	Consumable Material LIst
CMR	Certification Maintenance Requirement
CRI	Certification Review Item
CS	Certification Specification
DGAC-F	Direction Générale de l'Aviation Civile (French NAA)
DT	Damage Tolerant
EASA	European 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
FAL	Fuel Airworthiness Limitation
FAR	Federal Aviation Regulation
FRS	Flammability Reduction Systems
GOST	Government Standard (Russian)
HIC	Head Injury Criterion
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
JAA	Joint Aviation Authorities
JAR	Joint Aviation Requirements
MSN	Manufacturer Serial Number
MMEL	Master Minimum Equiment List
MLM	Maximum Landing Mass
MOD	Modification
MTOM	Maximum Take-Off Mass
MZFM	Maximum Zero Fuel Mass
NAA	National Aviation Authority
NPA	Notice of Proposed Amendment
OSD	Operational Suitability Data
SB	Service Bulletin
SC	Special Condition
SL	Safe Life
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCH	Type Certificate Holder
WV	Weight Variant

Administration

II. Type Certificate Holder Record

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

III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	03 Feb 2026	The content of the initial issue of this UK CAA TCDS was taken from EASA TCDS No. EASA.A.015 Issue 25 dated 04 July 2019 which was the current EASA version at 31 December 2020 and therefore the version of the TCDS for the A340 accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement, except as listed below: • Formatting changes to align with UK CAA TCDS template content, and updates to wording to reflect EU-exit. • Section 0 General (All Models) added including Correspondance Table Models/Engine Manufacturers contained in the front matter of TCDS EASA.A.015. • Sections 1.I.6, 2.I.6, 3.I.6, 4.I.6: information concerning UK CAA type validation dates added. • Sections 1.II.4, 2.II.4, 3.II.4, 4.II.4: title changed to “UK CAA Airworthiness Requirements” • Sections 1.II.9, 2.II.9, 3.II.9, 4.II.9: reference included to TCDSN UK.TC.A.00156 • Section 5.II. Statement on approval of OSD elements revised. • Section 5.III Part-26 Compliance Information added. • Section 6.I additional Acronyms and Abbreviations added. • Annex to TCDS UK.TC.A.00156 added.	Issue 1 03 Feb 2026

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