# Civil Aviation Authority United Kingdom



# **TYPE-CERTIFICATE DATA SHEET**

UK.TC.A.00071

for

**EMBRAER ERJ 190** 

Type Certificate Holder

**EMBRAER S.A.** 

Av. Brigadeiro Faria Lima. 2170 12227-901 São Jose dos Campos - SP Brazil

Model(s): ERJ 190-100 STD

ERJ 190-100 LR ERJ 190-100 IGW ERJ 190-100 ECJ ERJ 190-100 SR ERJ 190-200 STD ERJ 190-200 LR ERJ 190-200 IGW ERJ 190-300 ERJ 190-400

Issue: 9

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# **TABLE OF CONTENTS**

Section	on 1 General (All Models)	3
I.	General	3
II.	Marketing Designations	3
Section	on 2 EMBRAER ERJ 190-100 VARIANT	4
I.	General	4
II.	Certification Basis	5
III.	Technical Characteristic and Operating Limitations	7
IV.	Operating and Service Instructions	11
V.	Operational Suitability Data	12
VI.	Notes	13
Section	on 3 EMBRAER ERJ 190-200 VARIANT	15
I.	General	15
II.	Certification Basis	16
III.	Technical Characteristic and Operating Limitations	18
IV.	Operating and Service Instructions	21
V.	Operational Suitability Data	21
VI.	Notes	22
Section	on 4 EMBRAER ERJ 190-300 VARIANT	23
I.	General	23
II.	Certification Basis	24
III.	Technical Characteristic and Operating Limitations	26
IV.	Operating and Service Instructions	28
٧.	Operational Suitability Data	29
VI.	Notes	30
Section	on 5 EMBRAER ERJ 190-400 VARIANT	31
I.	General	31
II.	Certification Basis	32
III.	Technical Characteristic and Operating Limitations	34
IV.	Operating and Service Instructions	36
٧.	Operational Suitability Data	37
VI.	Notes	38
Section	on 6 Administration	39
I.	Acronyms and Abbreviations	39
II.	Type Certificate Holder Record	40
Ш	Amendment Record	40

## 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.IM.A.071 at Issue 21 dated 28 August
  2020 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and
  Cooperation Agreement.

## II. Marketing Designations

The Model ERJ 190-100 XX is often referred to in EMBRAER marketing literature as the "EMBRAER 190 XX", with the appropriate model (LR, STD, etc.) substituted for the "XX". The ERJ 190-100 IGW is referred to in Embraer marketing literature as "EMBRAER 190 AR". The ERJ 190-100 ECJ model is frequently mentioned in Embraer marketing literature as "Lineage1000".

The Model ERJ 190-200 XX is often referred to in EMBRAER marketing literature as the "EMBRAER 195 XX", with the appropriate model (LR, STD, etc.) substituted for the "XX". The ERJ 190-200 IGW is referred to in Embraer marketing literature as "EMBRAER 195 AR".

The Model ERJ 190-300 is often referred to in EMBRAER marketing literature as the "EMBRAER 190E2".

The model ERJ 190-400 is often referred to in EMBRAER marketing literature as the "EMBRAER 195E2".

These names are strictly marketing designations and are not part of the official model designations.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 3 of 42

## Section 2 EMBRAER ERJ 190-100 VARIANT

## I. General

## 1. Type / Variant / Model

a) Type: EMBRAER ERJ 190 b) Variant or Model: ERJ 190-100 STD ERJ 190-100 LR ERJ 190-100 IGW

ERJ 190-100 IGW ERJ 190-100 ECJ ERJ 190-100 SR

## 2. Performance Category

Α

# 3. Certifying Authority

Agência Nacional De Aviação Civil - ANAC Gerência Geral de Certificação de Produtos Aeronáuticos Rua Dr. Orlando Feirabend Filho, 230 -Centro Empresarial Aquarius Torre B Andares 14 a 18, Parque Residencial Aquarius, 12246-190 - São José dos Campos – SP Brazil

## 4. Manufacturer

EMBRAER S.A. Av. Brigadeiro Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

# 5. ANAC (Certifying Authority) Certification Application Date

30 May 2001

## 6. EASA Validation Application Date

30 March 2003

## 7. UK CAA Type Validation Application Date

Prior to 31 December 2020, application dates for type certification are covered by EASA type certification application date, as per Section 6 above. New applications for UK CAA type validation received after 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.

## 8. ANAC Type Certification Date

30 August 2005

# 9. EASA Type Validation Date

30 June 2006 (see note 2)

## 10. ETOPS

The Type Design, system reliability and performance of the ERJ 190-100ECJ model (commercially known as Lineage 1000) was found capable for Extended Range Operations iaw AMC 20-6 as documented in CRI G-2, when configured, maintained and operated in accordance with the current-revision of the ETOPS Configuration, Maintenance and Procedures (CMP) document, CMP-2926. This finding does not constitute an approval to conduct Extended Range Operations (operational approval must be obtained from the UK CAA).

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 4 of 42

## II. Certification Basis

# 1. ANAC (Certifying Authority) Type Certificate Data Sheet

ANAC Type Certificate Data Sheet No. EA-2005T13

## 2. ANAC (Certifying Authority) Certification Basis

RBHA 25 - Requisitos de Aeronavegabilidade. Aviões de transporte (Airworthiness Standards. Transport Category Airplanes), corresponding to U.S. 14 CFR Part 25, including amendments 25-1 through to 25-120, except section 25.981(c) of Amdt 25-102, Amdt 25-106, Section 25.735(h) of Amdt 25-107, Amdt 111, Amdt 115, Amdt 116, Amdt 118 and Amdt 119. (Reference to FCAR HT-01)

Note: The ERJ 190-100 ECJ (Commercially known as Lineage 1000) auxiliary fuel tanks comply with the requirement 25.981(c) of Amendment FAR 25-102.

# 3. EASA Airworthiness Requirements

Refer to EASA TCDS EASA.IM.A.071.

## 4. UK CAA Airworthiness Requirements

# 4.1. Applicable JAR Requirements at the Reference Date

JAR-25 Change 15 (Effective 01 October 2000)

CS-AWO

Note: The ERJ 190-100 ECJ auxiliary fuel tanks comply with the requirement 25.981(c) of Amendment FAR 25-102.

## 4.2 Reversions

None Identified

## 5. Special Conditions

The following Special Conditions have been applied.

JAA/170/SC/CRI 170/B-12	Angle of Attack Limiting Function
JAA/170/SC/CRI 170/B-15	Electronic Flight Control System: Control Surface Position Awareness
JAA/190/SC/CRI 190/E-16	Engine and APU Intakes Icing
JAA/170/SC/CRI 170/F-14	Air Data System (Smart Probes)
JAA/170/SC/CRI 170/F-16	IRS: Align in Motion
EASA/170/SC/CRI 170/F32	Head Up Guidance System
JAA/170/SC/CRI 170/D-02	Towbarless Towing (Ref. PNPA 25D-275)
JAA/170/SC/CRI 170/C-03	Interaction of Systems and Structure (NPA 25C-199)
JAA/170/SC/CRI 170/C-15	Structural/Control Jam Conditions (JAR 25.671(c)(3))
JAA/170/SC/CRI 170/C-17	Static Strength Criteria for Engine Failure Loads
JAA/170/SC/CRI 170/E-08	Engine Sustained Imbalance
JAA/170/SC/CRI 170/E-10	Uncontrolled Thrust Increase
JAA/170/SC/CRI 190/E-18	Reversing System Requirements
JAA/170/SC/CRI 170/F-01	Protection from the effects of HIRF
	JAA Interim Policy INT/POL/25/2 Issue 2
JAA/170/SC/CRI 170/F-15	On Board Databases JAR 25.1301, 25.1309,
	TGL N°9/10, ED-12B/DO-178B, ED-76/DO-200A
EASA/190/SC/CRI 190/D-30	In-Flight Accessible Class C Baggage Compartment
EASA/190/SC/CRI 190/D-37	Isolated Compartments

EASA/170/SC/CRI 170/D-38 Application of heat release and smoke density requirements to seat

materials

EASA/190/SC/CRI 190/D-39 VIP Cabin Interior / Shower installation

EASA/190/SC/CRI 190/H-01 Enhanced Airworthiness Programme for Aeroplane Systems – ICA on

**EWIS** 

#### 6. Deviations

EASA/190/Deviation/CRI 190/D-29 Emergency Exit Marking

EASA/190/Deviation/CRI 190/D-31 Installation of Door between passenger compartments

EASA/190/Deviation/CRI 190/D-32 Side Facing Divan

EASA/190/Deviation/CRI 190/D-33 Firm Handhold

## 7. Equivalent Safety Findings

The following Equivalent Safety Findings have been granted:

JAA/170/ESF/CRI B-17 Performance information for take-off on contaminated runways

Equivalent Safety with JAR 25x1591and AMJ 25x1591 (Issue 8 dated 19 October 2009): JAR 25x1591 and AMJ 25x1591 superseded by CS-

25.1591 and AMC 25.1591 at Amdt 2

JAA/170/ESF/CRI C-04 Vibration Buffet and Aeroelastic Stability

Equivalent Safety with JAR 25.629 and NPA 25BCD-236

JAA/170/ESF/CRI C-21 Fuel Tank Crashworthiness

Equivalent Safety with JAR 25.963(d) and JAR 25.561

JAA/170/ESF/CRI D-05 Hydraulic Systems

Equivalent Safety with JAR 25.1435

JAA/170/ESF/CRI D-06 Wheels and Brakes

Equivalent Safety with JAR 25.731 and JAR 25.735

JAA/170/ESF/CRI D-07 Fuselage Doors

Equivalent Safety with JAR 25.783

JAA/170/ESF/CRI D-17 Type and Number of Passenger Emergency Exits

Equivalent Safety with JAR 25.783, 25.785, 25.807, 25.809, 25.811,

25.812, 25.813, and 25.820

JAA/170/ESF/CRI D-18 Packs Off Take Off

Equivalent Safety with JAR 25.831(a)

JAA/170/ESF/CRI D-19 Reinforced Security Cockpit Door

Equivalent Safety with JAR 25.305(b), 25.307(a), 25.356, 25.771, 25.772,

25.789(a), 25.803, 25.809, 25.831, 25.853(a), 25.1301, and 25.1309

JAA/170/ESF/CRI 190/D-23 Thermal Acoustic Linings (ESF)

Equivalent Safety with JAR 25.853(a)

JAA/170/ESF/CRI 190/D-27 Tyre Speed Rating

Equivalent Safety with JAR 25.733

JAA/170/ESF/CRI 190/D-28 Seat Mounted Items of Mass/Cabin Surveillance Systems/Bulkhead Exit

Signs

Equivalent Safety with JAR 25.562, 25.785, 25.773(a)(2), 25.777(a),

25.811(d)(3), 25.1301 and 25.1309

JAA/170/ESF/CRI 190/E-13 Powerplant Installation Safety Assessments

Equivalent Safety with JAR 25.901(c) and 25.1309 (NPA 25E-337)

JAA/170/ESF/CRI F-12 Equipment, Systems and Installation Requirements

Equivalent Safety with JAR NPA 25F-281

JAA/170/ES/CRI F-26 Honeywell Primus EPIC Integrated Modular Avionics System (Compliance

with requirements for individual circuit protection)

Equivalent Safety with JAR 25.1357(e) and JAR 25.1309

JAA/170/ESF/CRI 190/F-32 Position Light Intensities

Equivalent Safety with JAR 25.1389(b), 25.1391, 25.1393 and 25.1395

EASA/170/190/ESF/CRI F-47 Lavatory Oxygen System Restoration

Equivalent Safety with JAR 25.1441(c) and 25.1443(c)

EASA/170/190/ESF/CRI F-50 New LED Position Lights System Overlap Exceedance

Equivalent Safety with JAR 25.1389(b)(3) and 25.1395

JAA/170/ES/CRI J-05 APU Installation

Equivalent Safety with JAR 25 Subpart J

JAA/170/ES/CRI J-06 APU Instrument Markings

Equivalent Safety with JAR 25J.1549

## 8. Environmental Protection Standards

Noise: ICAO Annex 16, Volume I (see TCDSN UK.TC.00071 for details)

Prevention of intentional fuel venting: ICAO Annex 16, Volume II, Part II, Chapter 2

## 9. Operational Suitability Data Requirements

The UK CAA type certification basis with respect to Operational Suitability Data (OSD) is defined as follows:

MMEL: As per CRI A-MMEL, the applicable certification basis for the establishment of Operational

Suitability Data (OSD) MMEL is:

JAR MMEL/MEL Amendment 1, Section 1 with CS-MMEL Book 2 Initial issue as AMC/GM.

FCD: As per CRI A-FCD, the applicable certification basis for the establishment of Operational Suitability

Data (OSD) Flight Crew is:

CS-FCD, Initial Issue, dated 31 January 2014.

CCD: As per CRI A-CCD, the applicable certification basis for the establishment of Operational Suitability

Data (OSD) Cabin Crew is:

CS-CCD, Initial Issue, dated 31 January 2014.

## III. Technical Characteristic and Operating Limitations

## 1. Production Basis

Manufactured under Production Certificate (ANAC COP E-7203-1)

## 2. Type Design Definition

Defined by Report 190-100TDSD EASA "Type Design Standard Document" at Revision -.

Defined by 190-100TDSD\_ECJ Revision A - Type Design Standard Document for model ECJ.

For the ERJ 190-100 ECJ also see Note 5.

## 3. Description

Low wing jet transport with a conventional tail unit configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.

The structure is conventional, with an aluminium-alloy fuselage, wing, tail-plane and fin; while ailerons, flaps, spoilers, elevator, and rudder are of composite material. The landing gear is retractable tricycle type, and twin wheeled, with carbon main landing gear wheel brakes.

## 4. Equipment

Required equipment is listed in Embraer Document Reference 190CCC009: "EMBRAER ERJ 190 Build Standard for Airplanes to be delivered to European Countries". Also, see Note 3.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 7 of 42

## 5. Dimensions

Length 36.24 m (118 ft 10 in)

Span 28.72 m (94 ft 3 in)

Height 10.57 m (34 ft 8 in)

Wing Area 92.53 m² (996 ft²)

## 6. Engines

Two General Electric CF34-10E5, CF34-10E5A1, CF34-10E6, CF34-10E6A1 and CF34-10E7 Turbofan Engines (see Note 1)

The engine applicable for the ERJ 190-100 ECJ is the CF34-10E7-B. The engines applicable for the ERJ 190-100 SR are the CF34-10E5A1 and CF34-10E7.

Limitations: See Engine Type Data Sheet No. EASA.IM.E.021 or Airplane Flight Manual

# 7. Auxiliary Power Unit

Pratt & Whitney Rzeszów S.A. APS2300

Limitations: Refer to the APU ETSO and DDP referenced therein

## 8. Propellers

Not applicable.

## 9. Fluids (Fuel, Oil, Additives, Hydraulics)

Refer to applicable approved manuals

## 10. Fluid Capacities

Refer to applicable approved manuals

# 11. Airspeed Limits

See Airplane Flight Manual

## 12. Maximum Operating Altitude

12,497 m (41,000 ft) pressure altitude

## 13. All Weather Capability

Cat II, CAT IIIa Autoland without Rollout, Head-Up Guidance System with LVTO/CAT IIIa/Rollout

# 14. Maximum Certified Masses

Phase	190-100STD		190-1	00 LR
Taxi and Ramp	105,706 lb	47,950 kg	111,239 lb	50,460 kg
	105,353 lb	47,790 kg	110,892 lb (9)	50,300 kg (9)
	96,624 lb (2)	43,740 kg (2)	105,359 lb (1)	47,790 kg <sup>(1)</sup>
Take-off	101,412 lb (6)	46,000 kg (6)	110,209 lb (3)	49,990 kg (3)
Take on	99,207 lb (6)	45,000 kg (6)	98,988 lb (4)	44,900 kg (4)
	98,325 lb (6)	44,600 kg <sup>(6)</sup>	101,412 lb (6)	46,000 kg (6)
	97,002 lb (6)	44,000 kg (6)	99,207 lb (6)	45,000 kg (6)
			98,325 lb (6)	44,600 kg (6)
			97,002 lb (6)	44,000 kg (6)
			101,390 lb (10)	45,990 kg (10)
Landing	105,816 lb	43,000 kg	94,794 lb	43,000 kg
Zero Fuel	89,944 lb	40,800 kg	89,944 lb	40,800 kg

Phase	190-100 IGW		190-10	00 ECJ
Taxi and Ramp	114,546 lb 51,960 kg		120,591 lb	54,700 kg
			120,150 lb	54,500 kg
Take-off	114,199 lb	51,800 kg	100,000 lb (7)	45,360 kg (7)
Take on	105,359 lb (5)	47,790 kg (5)	95,000 lb (7)	43,092 kg (7)
			90,000 lb (7)	40,824 kg (7)
Landing	96,998 lb	44000 kg	100970 lb	45800 kg
Zero Fuel	90,164 lb	40900 kg	80467 lb	36500 kg

Phase	190-100 SR		
Taxi and Ramp	101,743 lb	46,150 kg	
	110,561 lb (8)	50,150 kg (8)	
	111,245 lb (9)	50,460 kg (9)	
	101,390 lb	45,990 kg	
Take-off	110,209 lb (8)	49,990 kg (8)	
	110,892 lb (9)	50,300 kg (9)	
Landing	105,816 lb	43,000 kg	
Zero Fuel	89,944 lb	40,800 kg	

- (1) For airplanes Post-Mod. SB 190-00-0012 or equipped with an equivalent modification factory incorporated.
- (2) For airplanes Post-Mod. SB 190-00-0024 or equipped with an equivalent modification factory incorporated.
- (3) For airplanes Post-Mod. SB 190-00-0031 or equipped with an equivalent modification factory incorporated.
- (4) For airplanes Post-Mod. SB 190-00-0032 or equipped with an equivalent modification factory incorporated.
- (5) For airplanes Post-Mod. SB 190-00-0034 or equipped with an equivalent modification factory incorporated.
- (6) For airplanes Post-Mod. SBs 190-00-0050 to 190-00-0065 or equipped with an equivalent modification factory incorporated.
- (7) For airplanes Post-Mod. SBs 190LIN-00-0016 to 190LIN-00-0018 or equipped with an equivalent modification factory incorporated.
- (8) For airplanes Post-Mod. SBs 190-00-0089 or equipped with an equivalent modification factory incorporated.
- (9) For airplanes Post-Mod. SBs 190-00-0087 or equipped with an equivalent modification factory incorporated.
- (10) For airplanes Post-Mod. SBs 190-00-0088 or equipped with an equivalent modification factory incorporated. The application of the (9) Post-Mod SB SB190-00-0087 restores the MTOW to 50,300kg (110,892 lb)

# 15. Centre of Gravity Range

See Airplane Flight Manual.

#### 16. Datum

A perpendicular plane to the fuselage centre line, located at 14,443 mm ahead of the wing stub front spar. This spar is located 414 mm ahead of the wing jack point.

# 17. Mean Aerodynamic Chord (MAC)

3.682 m (12ft. 1 in.)

## 18. Levelling Means

See Weight and Balance Manual.

# 19. Minimum Flight Crew

Two (Pilot and Co-pilot) for all types of flight.

# 20. Maximum Seating Capacity

114 Passengers except the following:

The ERJ 190-100 ECJ is limited to 19 Passengers (see Note 4)

The ERJ 190-100 SR is limited to 98 Passengers

#### 21. Exits

All ERJ 190-100 Models except ERJ 190-100 ECJ (Lineage 1000):

Exit	Number	Туре	Size mm
1 Main Fwd LH	1	Type I	780 mm (w) x 1840 mm (h)
2 Main Aft LH	1	Type I	670 mm (w) x 1814 mm (h)
3 Overwing Emergency Doors (LH)	1	Type III	530 mm (w) x 1032 mm (h)
4 Overwing Emergency Doors (RH)	1	Type III	530 mm (w) x 1032 mm (h)
5 Service (Fwd, RH)	1	Type I	640 mm (w) x 1380 mm (h)

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 10 of 42

6 Service (Aft RH)	1	Type I	670 mm (w) x 1395 mm (h)
7 Cockpit Side Window (2)	Flight Crew Emergency Exits		483 mm (w) x 508 mm (h)

The ERJ 190-100 ECJ (Lineage 1000) has the following exits available:

Exit	Number	Туре	Size mm
1 Main Fwd LH	1	Type I	780 mm (w) x 1840 mm (h)
2 Overwing Emergency Doors (RH)	1	Type III	530 mm (w) x 1032 mm (h)
3 Cockpit Side Window (2)	Flight Crew Emergency E		483 mm (w) x 508 mm (h)

The Overwing Emergency Doors (LH), the Service Doors (Fwd, RH) and (Aft RH) are locked and not operative. The Main Aft LH is used as Baggage Door (see Note 4).

# 22. Baggage/ Cargo Compartment

All ERJ 190-100 Models except ERJ 190-100 ECJ (Lineage 1000):

Location	Class	Volume m³ (ft³)
Front Fwd (Underfloor)	С	12.5 m <sup>3</sup> (442 ft <sup>3</sup> )
Rear Aft (Underfloor)	С	10.1 m <sup>3</sup> (358 ft <sup>3</sup> )

The ERJ 190-100 ECJ (Lineage 1000) - subject to cabin completion, see Note 4:

Location	Class	Volume m³ (ft³)
Front Fwd (Underfloor)	С	3.42 m <sup>3</sup> (120.77 ft <sup>3</sup> )
Rear Aft (Main Deck)	С	9.14 m <sup>3</sup> (322.77 ft <sup>3</sup> )

# 23. Wheels and Tyres

Nose Assy (Qty 2) Tyre/Wheel: 24 x 7.7 16PR / 24 x 7.7 R10\*

Main Assy (Qty 4) Tyre/Wheel: H41 x 16.0-20 22PR / H41 x 16.0 R20\* Speed Rating: 225 mph

## IV. Operating and Service Instructions

# 1. Flight Manual

Airplane Flight Manual, Document No. AFM-8422 Revision Original or later approved revisions

# 2. Mandatory Maintenance Instructions

## 2.1 Aircraft Maintenance Manual

(Customised to aircraft configuration)

<sup>\*</sup> The radial tyre is a standard item for ERJ190-100ECJ and an optional item for the other ERJ190-100 models.

## 2.2 Maintenance Review Board Report

Maintenance Review Board Report Ref: MRB-1928, Revision 1 or subsequent approved revision. For the ERJ 190-100 ECJ model the applicable document is the Maintenance Planning Guide (MPG) document 2928.

The National Requirements identified in Appendix E of the MRBR as applicable to aircraft operating under EASA jurisdiction are applicable to aircraft operating under UK CAA jurisdiction.

# 2.3 Airworthiness Limitations and Certification Maintenance Requirements

MRB Report (MRB-1928): Appendix A Part 1 (Certification Maintenance Requirements)

Appendix A Part 2 (Structural Inspection Fatigue Limits ALI)

Appendix A Part 3 (Fuel System Limitation Items - FSL)

Appendix A Part 4 (Life Limit Items – LLI)

For the ERJ 190-100 ECJ model, the Appendix A (Part 1, 2, 3 and 4) of the Maintenance Planning Guide (MPG) document 2928 must be considered as reference for mandatory maintenance requirements mentioned above.

## 2.4 Structural Repair Manual

SRM-1929 is applicable. For ERJ 190-100 ECJ the Structural Repair Manual SRM-2773 applies.

#### 3. Service Letters and Service Bulletins

As published by EMBRAER and approved by ANAC.

# V. Operational Suitability Data

## 1. Master Minimum Equipment List

MMEL revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. MMEL-5814 Rev 7 was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00230 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Master Minimum Equipment List has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-MMEL and as documented in EMBRAER 170/175/190/195 UK CAA Master Minimum Equipment List MMEL-8350, Original Revision, dated 24 July 2023.
- b. Required for entry into service by UK operator.

# 2. Flight Crew Data

The Flight Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-FCD report 170MSO092 Revision G (30 November 2020) was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Flight Crew data defined in 196MSO1055 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- b. Required for entry into service by UK operator.
- c. Pilot Type Rating: The licence endorsement for the ERJ 190-100 models aircraft is "EMB170". The ERJ 190 and the ERJ 170 series aircraft are variants of the same type of aircraft.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 12 of 42

## 3. Cabin Crew Data

The Cabin Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-CCD report 196MSO1007 Revision B (17 June 2019) was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Cabin Crew data defined in 196MSO1056 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- b. Required for entry into service by UK operator.
- The EMBRAER 190/195 aircraft models are determined to be variants to the EMBRAER 170/175 aircraft models.

#### VI. Notes

Note 1: The CF34-10E5, CF34-10E5A1, CF34-10E6, CF34-10E6A1, CF34-10E7 and CF34-10E7-B engines designation, as presented in the Engine Parts List, must contain the suffix Gxx, which defines the specific engine configuration. For the ERJ 190-100 and ERJ 190-200 models, the following designations are approved for operation: CF34-10E6G03, CF34-10E6A1G03, CF34-10E5G03, CF34-10E5A1G03, CF34-10E6G05, CF34-10E6A1G05, CF34-10E5G05, CF34-10E5G05, CF34-10E7G03, CF34-10E7G05, CF34-10E6G07, CF34-10E6A1G07, CF34-10E5G07, CF34-10E5G07, CF34-10E7G07, CF34-10E7-G03, CF34-10E7-BG05 and CF34-10E7-BG07.

The engine nameplate may display the model (example: CF34-10E6) and the Gxx suffix (example: G05) in separate fields. CF34-10E Block 2 engines are identified with the suffix "G07".

#### Note 2:

**EASA Approval Dates:** 

30 June 2006:

ERJ 190-100 STD

ERJ 190-100 LR

ERJ 190-100 IGW

7 November 2007:

ERJ 190-100 ECJ

29 January 2010:

ERJ 190-100 SR

## Note 3:

The PRIMUS EPIC® Load 4.4 or subsequent approved loads must be installed. For the ERJ 190-100 ECJ the PRIMUS EPIC® Load 21.4 or subsequent approved loads must be installed.

## Note 4:

The ERJ 190-100 ECJ is initially configured "Green". The "Green Configuration" type design does not include passenger provisions. Carriage of persons in the cabin is permitted when an approved seating arrangement and related required passenger provisions are incorporated in accordance with Doc 190MSD006 "ERJ-100ECJ Completion Guidelines". In relation to demonstrate compliance with Doc 190MSD006, a maximum basic operating weight & payload – for the purpose of fatigue evaluation - of 33.386kg needs to be respected. The EU Type Design requires incorporation of corrective actions iaw EMBRAER letter GCF-2073/2009 dtd. 30. Nov 2009 "corrective action plan".

Commercial Operation under EASA jurisdiction:

(a) "Green Configuration": Compliance with EU OPS and JAR 26 was demonstrated.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 13 of 42

(b) Approved seating arrangement: Demonstration of compliance with EU OPS and JAR 26 is required. Aircraft with Cabin Doors i.a.w CRI 190/D-31 are not eligible for commercial operation under EASA rules except if adopted by a suitable approved modification, e.g. Embraer SB- 190LIN-00-005.

# **Note 5**:

The EU type design for ERJ 190-100 ECJ from CJ001 through CJ008 requires incorporation of corrective actions i.a.w EMBRAER letter GCF-0402/2010 dtd. 14. April 2010, when exported to an EASA member.

#### Note 6:

The thermal and acoustic insulation material that meets the flammability certification requirement CS 25.856 (b) has been approved for ERJ190-100 and ERJ190-200 models (except ERJ 190-100 ECJ) according to Design Change Approval (DCA) 0190-025-00147-2008/EASA and it was addressed with "Elect to comply" CRI D-24 "Thermal Acoustic Insulation Material.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 14 of 42

## Section 3 EMBRAER ERJ 190-200 VARIANT

## I. General

# 1. Type / Variant / Model

a) Type: EMBRAER ERJ 190 b) Variant or Model: ERJ 190-200 STD ERJ 190-200 LR ERJ 190-200 IGW

## 2. Performance Category

Α

# 3. Certifying Authority

Agência Nacional De Aviação Civil - ANAC Gerência Geral de Certificação de Produtos Aeronáuticos Rua Dr. Orlando Feirabend Filho, 230 -Centro Empresarial Aquarius Torre B Andares 14 a 18, Parque Residencial Aquarius, 12246-190 - São José dos Campos – SP Brazil

## 4. Manufacturer

EMBRAER S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

# 5. ANAC Certification Application Date

31 December 2001

# 6. EASA Validation Application Date

30 March 2003

## 7. UK CAA Type Validation Application Date

UK CAA Type Validation Application Date Prior to 31 December 2020, application dates for type certification are covered by the JAA type certification application date, as per Section 6 above. New applications for UK CAA type validation received after 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.

## 8. ANAC Type Certification Date

30 June 2006

# 9. EASA Type Validation Date

17 July 2006 (see note 2)

TCDS No.: UK.TC.A.00071 Date: 04 February 2025 Issue: 89

## II. Certification Basis

# 1. ANAC (Certifying Authority) Type Certificate Data Sheet

ANAC Type Certificate Data Sheet No. EA-2005T13

# 2. ANAC (Certifying Authority) Certification Basis

RBHA 25 - Requisitos de Aeronavegabilidade. AvioesdeTransporte (Airworthiness Standards. Transport Category Airplanes), corresponding to U.S. FAR part 25, including amendments 25-1 through 25-117, except section 25.981(c) of Amdt 25-102, Amdt 25-106, Section 25.735(h) of Amdt 25-107, Amdt 111, Amdt 115 and Amdt 116. (Reference to ERJ 190-200 FCAR HT- 01)

## 3. EASA Airworthiness Requirements

Refer to EASA TCDS EASA.IM.A.071.

## 4. CAA Airworthiness Requirements

## 4.1. Applicable JAR Requirements at the Reference Date

JAR-25 Change 15 (Effective 01 October 2000)

CS-AWO

## 4.2 Reversions

None Identified

## 5. Special Conditions

The following Special Conditions have been applied.

JAA/170/SC/CRI 170/B-12	Angle of Attack Limiting Function
JAA/170/SC/CRI 170/B-15	Electronic Flight Control System: Control Surface Position Awareness
JAA/190/SC/CRI 190/E-16	Engine and APU Intakes Icing
JAA/170/SC/CRI 170/F-14	Air Data System (Smart Probes)
JAA/170/SC/CRI 170/F-16	IRS: Align in Motion
EASA/170/SC/CRI 170/F32	Head Up Guidance System
JAA/170/SC/CRI 170/D-02	Towbarless Towing (Ref. PNPA 25D-275)
JAA/170/SC/CRI 170/C-03	Interaction of Systems and Structure (NPA 25C-199)
JAA/170/SC/CRI 170/C-15	Structural/Control Jam Conditions (JAR 25.671(c)(3))
JAA/170/SC/CRI 170/C-17	Static Strength Criteria for Engine Failure Loads
JAA/170/SC/CRI 170/E-08	Engine Sustained Imbalance
JAA/170/SC/CRI 170/E-10	Uncontrolled Thrust Increase
JAA/170/SC/CRI 190/E-18	Reversing System Requirements
JAA/170/SC/CRI 170/F-01	Protection from the effects of HIRF
	JAA Interim Policy INT/POL/25/2 Issue 2
JAA/170/SC/CRI 170/F-15	On Board Databases JAR 25.1301, 25.1309,
	TGL N°9/10, ED-12B/DO-178B, ED-76/DO-200A
EASA/170/SC/CRI 170/D-38	Application of heat release and smoke density requirements to seat materials
EASA/190/SC/CRI 190/D-39	VIP Cabin Interior / Shower installation
EASA/190/SC/CRI 190/H-01	Enhanced Airworthiness Programme for Aeroplane Systems – ICA on EWIS

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 16 of 42

## 6. Deviations

No deviations have been granted.

## 7. Equivalent Safety Findings

The following Equivalent Safety Findings have been granted:

JAA/170/ESF/CRI B-17 Performance information for take-off on contaminated runways

Equivalent Safety with JAR 25x1591and AMJ 25x1591 (Issue 8 dated 19 October 2009): JAR 25x1591 and AMJ 25x1591 superseded by CS-

25.1591 and AMC 25.1591 at Amdt 2

JAA/170/ESF/CRI C-04 Vibration Buffet and Aeroelastic Stability

Equivalent Safety with JAR 25.629 and NPA 25BCD-236

JAA/170/ESF/CRI C-21 Fuel Tank Crashworthiness

Equivalent Safety with JAR 25.963(d) and JAR 25.561

JAA/170/ESF/CRI D-05 Hydraulic Systems

Equivalent Safety with JAR 25.1435

JAA/170/ESF/CRI D-06 Wheels and Brakes

Equivalent Safety with JAR 25.731 and JAR 25.735

JAA/170/ESF/CRI D-07 Fuselage Doors

Equivalent Safety with JAR 25.783

JAA/170/ESF/CRI D-17 Type and Number of Passenger Emergency Exits

Equivalent Safety with JAR 25.783, 25.785, 25.807, 25.809, 25.811,

25.812, 25.813, and 25.820

JAA/170/ESF/CRI D-18 Packs Off Take Off

Equivalent Safety with JAR 25.831(a)

JAA/170/ESF/CRI D-19 Reinforced Security Cockpit Door

Equivalent Safety with JAR 25.305(b), 25.307(a), 25.356, 25.771, 25.772,

25.789(a), 25.803, 25.809, 25.831, 25.853(a), 25.1301, and 25.1309

JAA/170/ESF/CRI 190/D-23 Thermal Acoustic Linings (ESF)

Equivalent Safety with JAR 25.853(a)

JAA/170/ESF/CRI 190/D-27 Tyre Speed Rating

Equivalent Safety with JAR 25.733

JAA/170/ESF/CRI 190/D-28 Seat Mounted Items of Mass/Cabin Surveillance Systems/Bulkhead Exit

Signs

Equivalent Safety with JAR 25.562, 25.785, 25.773(a)(2), 25.777(a),

25.811(d)(3), 25.1301 and 25.1309

JAA/170/ESF/CRI 190/E-13 Powerplant Installation Safety Assessments

Equivalent Safety with JAR 25.901(c) and 25.1309 (NPA 25E-337)

JAA/170/ESF/CRI F-12 Equipment, Systems and Installation Requirements

Equivalent Safety with JAR NPA 25F-281

JAA/170/ES/CRI F-26 Honeywell Primus EPIC Integrated Modular Avionics System (Compliance

with requirements for individual circuit protection)

Equivalent Safety with JAR 25.1357(e) and JAR 25.1309

JAA/170/ESF/CRI 190/F-32 Position Light Intensities

Equivalent Safety with JAR 25.1389(b), 25.1391, 25.1393 and 25.1395

EASA/170/190/ESF/CRI F-47 Lavatory Oxygen System Restoration

Equivalent Safety with JAR 25.1441(c) and 25.1443(c)

EASA/170/190/ESF/CRI F-50 New LED Position Lights System Overlap Exceedance

Equivalent Safety with JAR 25.1389(b)(3) and 25.1395

JAA/170/ES/CRI J-05 APU Installation

Equivalent Safety with JAR 25 Subpart J

JAA/170/ES/CRI J-06 APU Instrument Markings

Equivalent Safety with JAR 25J.1549

#### 8. Environmental Protection Standards

Noise: ICAO Annex 16, Volume I (see TCDSN UK.TC.A.00071)

Prevention of intentional fuel venting: ICAO Annex 16, Volume II, Part II, Chapter 2

Fuel: ICAO Annex 16, Volume II (Second Edition)

# 9. Operational Suitability Data Requirements

The UK CAA type certification basis with respect to Operational Suitability Data (OSD) is defined as follows:

MMEL: As per CRI A-MMEL, the applicable certification basis for the establishment of Operational

Suitability Data (OSD) MMEL is:

JAR MMEL/MEL Amendment 1, Section 1 with CS-MMEL Book 2 Initial issue as AMC/GM.

FCD: As per CRI A-FCD, the applicable certification basis for the establishment of Operational Suitability

Data (OSD) Flight Crew is:

CS-FCD, Initial Issue, dated 31 January 2014.

CCD: As per CRI A-CCD, the applicable certification basis for the establishment of Operational Suitability

Data (OSD) Cabin Crew is:

CS-CCD, Initial Issue, dated 31 January 2014.

# III. Technical Characteristic and Operating Limitations

## 1. Production Basis

Manufactured under Production Certificate (ANAC COP E-7203-1)

## 2. Type Design Definition

Defined by Report 190-200TDSD EASA "Type Design Standard Document" at Revision -.

## 3. Description

Low wing jet transport with a conventional tail unit configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.

The structure is conventional, with an aluminium-alloy fuselage, wing, tail-plane and fin; while ailerons, flaps, spoilers, elevator, and rudder are of composite material. The landing gear is retractable tricycle type, and twin wheeled, with carbon main landing gear wheel brakes.

## 4. Equipment

Required equipment is listed in Embraer Document Reference 190CCC009: "EMBRAER ERJ 190 Build Standard for Airplanes to be delivered to European Countries". Also, see Note 3.

#### 5. Dimensions

Length 38.66 m (126 ft 10 in) Span 28.72 m (94 ft 3 in) Height 10.57 m (34 ft 8 in) Wing Area 92.53 m² (996 ft²)

# 6. Engines

Two General Electric CF34-10E5, CF34-10E5A1, CF34-10E6, CF34-10E6A1 and CF34-10E7 Turbofan Engines (see Note 1)

Limitations: See Engine Type Data Sheet No. EASA.IM.E.021 or Airplane Flight Manual

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 18 of 42

# 7. Auxiliary Power Unit

Pratt & Whitney Rzeszów S.A. APS2300

Limitations: Refer to the APU ETSO and DDP referenced therein

## 8. Propellers

Not applicable.

# 9. Fluids (Fuel, Oil, Additives, Hydraulics)

Refer to applicable approved manuals

# 10. Fluid Capacities

Refer to applicable approved manuals

# 11. Airspeed Limits:

See Airplane Flight Manual

# 12. Maximum Operating Altitude

12,497 m (41,000 ft) pressure altitude

# 13. All Weather Capability

Cat II, CAT IIIa Autoland without Rollout, Head-Up Guidance System with LVTO/CAT IIIa/Rollout

## 14. Maximum Certified Masses

Phase	190-200STD		190-:	200 LR
Taxi and Ramp	107,914 lb 48,950 kg		112,324 lb	50,950 kg
Take-off	107,562 lb 101,411 lb (1)			50,790 kg 48,790 kg (2)
Landing	99,206 lb	45,000 kg	99,206 lb	45,000 kg
Zero Fuel	93,695 lb	42,500 kg	93,695 lb	42,500 kg

Phase	190-200 IGW		
Taxi and Ramp	115,631 lb	52,450 kg	
Take-off	115,278 lb	52,290 kg	
Landing	100,970 lb	45,800 kg	
Zero Fuel	93,915 lb	42,600 kg	

<sup>(1)</sup> If SB 190-00-0038 applied

# 15. Centre of Gravity Range

See Airplane Flight Manual.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 19 of 42

<sup>(2)</sup> For airplanes Post-Mod. SB 190-00-0076 or equipped with an equivalent modification factory incorporated.

## 16. Datum

A perpendicular plane to the fuselage centre line, located at 15,256 mm ahead of the wing stub front spar. This spar is located 414 mm ahead of the wing jack point.

# 17. Mean Aerodynamic Chord (MAC)

3.682 m (12ft. 1 in.)

## 18. Levelling Means

See Weight and Balance Manual.

# 19. Minimum Flight Crew

Two (Pilot and Co-pilot) for all types of flight.

# 20. Maximum Seating Capacity

124 Passengers

## 21. Exits

All ERJ 190-200 Models:

Exit	Number	Туре	Size mm
1 Main Fwd LH	1	Type I	780 mm (w) x 1840 mm (h)
2 Main Aft LH	1	Type I	670 mm (w) x 1814 mm (h)
3 Overwing Emergency Doors (LH)	1	Type III	530 mm (w) x 1032 mm (h)
4 Overwing Emergency Doors (RH)	1	Type III	530 mm (w) x 1032 mm (h)
5 Service (Fwd, RH)	1	Type I	640 mm (w) x 1380 mm (h)
6 Service (Aft RH)	1	Type I	670 mm (w) x 1395 mm (h)
7 Cockpit Side Window (2)	Flight Crew Emergency Exits		483 mm (w) x 508 mm (h)

# 22. Baggage/ Cargo Compartment

All ERJ 190-200 Models:

Location	Class	Volume m³ (ft³)
Front Fwd (Underfloor)	С	13.8 m³ (488 ft³)
Rear Aft (Underfloor)	С	12.7 m <sup>3</sup> (448 ft <sup>3</sup> )

# 23. Wheels and Tyres

Nose Assy (Qty 2) Tyre/Wheel: 24 x 7.7 16PR / 24 x 7.7 R10\*

Main Assy (Qty 4) Tyre/Wheel: H41 x 16.0-20 22PR / H41 x 16.0 R20\* Speed Rating: 225 mph

<sup>\*</sup> The radial tyre is an optional item for the ERJ 190-200

## IV. Operating and Service Instructions

## 1. Flight Manual

Airplane Flight Manual, Document No. AFM-8422 Revision Original or later approved revisions

## 2. Mandatory Maintenance Instructions

## 2.1 Aircraft Maintenance Manual

(Customised to aircraft configuration)

## 2.2 Maintenance Review Board Report

Maintenance Review Board Report Ref: MRB-1928, Revision 1 or subsequent approved revision.

The National Requirements identified in Appendix E of the MRBR as applicable to aircraft operating under EASA jurisdiction are applicable to aircraft operating under UK CAA jurisdiction.

## 2.3 Airworthiness Limitations and Certification Maintenance Requirements

MRB Report (MRB-1928): Appendix A Part 1 (Certification Maintenance Requirements)

Appendix A Part 2 (Structural Inspection Fatigue Limits ALI)

Appendix A Part 3 (Fuel System Limitation Items - FSL)

Appendix A Part 4 (Life Limit Items – LLI)

## 2.4 Structural Repair Manual

SRM-2411 is applicable.

## 3. Service Letters and Service Bulletins

As published by EMBRAER and approved by ANAC.

# V. Operational Suitability Data

# 1. Master Minimum Equipment List

MMEL revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. MMEL-5814 Rev 7 was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00230 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Master Minimum Equipment List has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-MMEL and as documented in EMBRAER 170/175/190/195 UK CAA Master Minimum Equipment List MMEL-8350, Original Revision, dated 24 July 2023.
- b. Required for entry into service by UK operator.

# 2. Flight Crew Data

The Flight Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-FCD report 170MSO092 Revision G (30 November 2020) was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Flight Crew data defined in 196MSO1055 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- Required for entry into service by UK operator.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 21 of 42

c. Pilot Type Rating: The licence endorsement for the ERJ 190-200 model aircraft is "EMB170". The ERJ 190 and the ERJ 170 series aircraft are variants of the same type of aircraft.

#### 3. Cabin Crew Data

The Cabin Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-CCD report 196MSO1007 Revision B (17 June 2019) was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Cabin Crew data defined in 196MSO1056 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- b. Required for entry into service by UK operator.
- c. The EMBRAER 190/195 aircraft models are determined to be variants to the EMBRAER 170/175 aircraft models.

#### VI. Notes

Note 1: The CF34-10E5, CF34-10E5A1, CF34-10E6, CF34-10E6A1, CF34-10E7 and CF34-10E7-B engines designation, as presented in the Engine Parts List, must contain the suffix Gxx, which defines the specific engine configuration. For the ERJ 190-100 and ERJ 190-200 models, the following designations are approved for operation: CF34-10E6G03, CF34-10E6A1G03, CF34-10E5G03, CF34-10E5A1G03, CF34-10E6G05, CF34-10E6A1G05, CF34-10E5G05, CF34-10E7G03, CF34-10E7G05, CF34-10E6G07, CF34-10E6A1G07, CF34-10E5G07, CF34-10E5A1G07, CF34-10E7G07, CF34-10E7-G03, CF34-10E7-BG05 and CF34-10E7-BG07.

The engine nameplate may display the model (example: CF34-10E6) and the Gxx suffix (example: G05) in separate fields. CF34-10E Block 2 engines are identified with the suffix "G07".

## Note 2:

**EASA Approval Dates:** 

17. July 2006:

ERJ 190-200 STD ERJ 190-200 LR

ERJ 190-200 IGW

## Note 3:

The PRIMUS EPIC® Load 4.4 or subsequent approved loads must be installed.

## Note 4:

The thermal and acoustic insulation material that meets the flammability certification requirement CS 25.856 (b) has been approved for ERJ190-100 and ERJ190-200 models (except ERJ 190-100 ECJ) according to Design Change Approval (DCA) 0190-025-00147-2008/EASA and it was addressed with "Elect to comply" CRI D-24 "Thermal Acoustic Insulation Material.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 22 of 42

## Section 4 EMBRAER ERJ 190-300 VARIANT

## I. General

# 1. Type / Variant / Model

c) Type: EMBRAER ERJ 190 d) Variant or Model: ERJ 190-300

## 2. Performance Category

Α

# 3. Certifying Authority

Agência Nacional De Aviação Civil - ANAC Gerência Geral de Certificação de Produtos Aeronáuticos Rua Dr. Orlando Feirabend Filho, 230 -Centro Empresarial Aquarius Torre B Andares 14 a 18, Parque Residencial Aquarius, 12.246-190 - São José dos Campos – SP Brazil

## 4. Manufacturer

EMBRAER S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

# 5. ANAC Certification Application Date

29 July 2013

# 6. EASA Validation Application Date

30 July 2013

## 7. UK CAA Type Validation Application Date

UK CAA Type Validation Application Date Prior to 31 December 2020, application dates for type certification are covered by the JAA type certification application date, as per Section 6 above. New applications for UK CAA type validation received after 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.

## 8. ANAC Type Certification Date

28 February 2018

# 9. EASA Type Validation Date

28 February 2018

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 23 of 42

## II. Certification Basis

# 1. ANAC (Certifying Authority) Type Certificate Data Sheet

ANAC Type Certificate Data Sheet No. EA-2005T13

# 2. ANAC (Certifying Authority) Certification Basis

RBAC 25 (Airworthiness Standards: Transport Category Airplanes), effective on June 12, 2013, corresponding to the 14 CFR Part 25, including amendments 25-1 through 25-134, plus the following amendments:

- Amendment 25-135 in entirety
- Amendment 25-136 in entirety

Besides the RBAC 25 amendments listed above, for the sake of harmonization between the ANAC and FAA certification basis, Embraer proposes to adopt as reference the following additional requirements:

US 14 CFR Part 25 (Airworthiness Standards: Transport Category Airplanes), including the following amendments:

- Amendment 25-137 in entirety GCF- 1608/2017 Annex 4/8
- Amendment 25-138 in entirety
- Amendment 25-139 in entirety
- Amendment 25-141 in entirety

No reversion to earlier amendments of Part 25, as prescribed under § 21.101(b)(3), was identified for this project.

## 3. EASA Airworthiness Requirements

Refer to EASA TCDS EASA, IM, A, 071.

#### 4. CAA Airworthiness Requirements

# 4.1. Applicable CS Requirements at the Reference Date

CS-25 Amdt. 13 (dated 10 June 2013)

CS 25.851(a)(6) at Amdt. 18 with regards to the equipment installation and qualification of Halon free handheld Fire Extinguishers

CS-AWO Initial Issue (dated 17 October 2003)

## 4.2 Reversions

None Identified

## 5. Special Conditions

The following Special Conditions have been applied.

E2/B-25	Flight Envelope protection: General Requirements
E2/B-28	Flight Envelope protection: High AoA Protection
E2/B-29	Performance Credit for ATTCS During Go-Around

E2/C-26 Landing Pitchover Condition

E2/D-46 Electronic Flight Control System: Control Surface Position Awareness,

Multiple Modes of Operation, Flight Control in all Attitudes

E2/D-49 Seats with Non-Traditional, Large, Non-Metallic Panels

E2/D-53 Electrical/Electronic Equipment Bay Fire Detection and Smoke Penetration

E2/E-20 Water / Ice in fuel
E2/E-21 Cowl loss prevention

JAA/170/SC/CRI 170/F-01 Protection from the effects of HIRF JAA Interim Policy INT/POL/25/2 Iss 2

170,190/F-40B ERJ 170/190 DataLink Services

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 24 of 42

170/F-41	Flight Recorders including Data Link Recording
E2/F-58	Security Protection of Aircraft Systems & Networks

E2/F-65 Non-rechargeable Lithium-lon Batteries

#### 6. Deviations

No deviations have been granted.

## 7. Equivalent Safety Findings

The following Equivalent Safety Findings have been granted:

0 1	
E2/B-24	Electronic Flight Control System: Mis-trim Manoeuvring
E2/C-38	Vibration/Buffeting Criteria for Ku Band Antenna Radome Installation (CS25.251)
E2/D-44	Flight Control System Failure Criteria
E2/D-47	Tyre Speed Rating
E2/D-48	Emergency Exit Locator Sign
E2/D-51	Protection of Flight Crew Compartment - Reduced Energy
E2/D-69	Aerodynamic Seals and Flap track fairings compliance to CS 25.867
E2/D-72	Minor Obstruction to Type III Exit
E2/D-73	Combined Aircraft Pressurization Outflow and Positive Pressure Differential Relief Valves
E2/E-22	PW1900G Nacelle designated fire zones
E2/E-34	Lack of On/Off Switch for Automatic Take-off Thrust Control System (ATTCS)
E2/F-47	Lavatory Oxygen System Restoration
E2/F-64	Pneumatic Systems Harmonized 25.1438
E2/F-68	Crew Determination of Quantity of Oxygen in Lavatory and Cabin Oxygen System distributed Bottles
E2/F-70	Determination of Minimum Oxygen Flow for the Passenger Oxygen System
E2/F-72	Position Lighting Systems Maximum Overlapping Intensity Deviations
E2/G-05	Digital only Display for Powerplant System Indications

## 8. Environmental Protection Standards

Noise: CS-36 Amdt. 5 (dated 1 August 2019) (see TCDSN UK.TC.A.00071)

Prevention of intentional fuel venting: CS-34 Amdt. 1 (dated 28 January 2013)

# 9. Operational Suitability Data Requirements

The UK CAA type certification basis with respect to Operational Suitability Data (OSD) is defined as follows:

MMEL: As per CRI A-MMEL, the applicable certification basis for the establishment of Operational Suitability Data (OSD) MMEL is:

JAR MMEL/MEL Amendment 1, Section 1 with CS-MMEL Book 2 Initial issue as AMC/GM.

FCD: The applicable certification basis for the establishment of Operational Suitability Data (OSD) Flight

Crew is:

CS-FCD, Initial Issue, dated 31 January 2014.

CCD: As per CRI A-CCD, the applicable certification basis for the establishment of Operational Suitability

Data (OSD) Cabin Crew is:

CS-CCD, Initial Issue, dated 31 January 2014.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 25 of 42

## III. Technical Characteristic and Operating Limitations

#### 1. Production Basis

Manufactured under Production Certificate (ANAC COP E-7203-1)

# 2. Type Design Definition

Defined by Report 196TDSD300 "Type Design Standard Document" at Revision -.

## 3. Description

Low wing jet transport with a conventional tail unit configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.

The structure is conventional, with an aluminium-alloy fuselage, wing, tail-plane and fin; while ailerons, flaps, spoilers, elevator, and rudder are of composite material. The landing gear is retractable tricycle type, and twin wheeled, with carbon main landing gear wheel brakes.

## 4. Equipment

Required equipment is listed in Embraer Document Reference 196TDD300: "Type Design Standard Document".

## 5. Dimensions

Length 36.237 m (118 ft 10 in) Span 33.72 m (110 ft 4 in) Height 10.69 m (35 ft 1 in) Wing Area 103 m<sup>2</sup> (1108.7 ft<sup>2</sup>)

## 6. Engines

Two Pratt & Whitney PW1919G or two Pratt & Whitney PW1922G Turbofan Engines

Limitations: See Engine Type Data Sheet No. IM.E.090 Issue 7 dated 12 December 2019 or Airplane Flight Manual

# 7. Auxiliary Power Unit

Pratt & Whitney Rzesów APS2600[E]

Limitations: Refer to the APU ETSO and DDP referenced therein

# 8. Propellers

Not applicable.

## 9. Fluids (Fuel, Oil, Additives, Hydraulics)

Refer to applicable approved manuals

# 10. Fluid Capacities

Refer to applicable approved manuals

## 11. Airspeed Limits:

See Airplane Flight Manual

# 12. Maximum Operating Altitude

12,497 m (41,000 ft) pressure altitude

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 26 of 42

# 13. All Weather Capability

Cat II, CAT III Fail-Passive Autoland without Rollout Guidance

#### 14. Maximum Certified Masses

190-300 Phase							
Taxi an	d Ramp	Та	ke-off	Land	ling	Zero	Fuel
110,650 lb <sup>(28)</sup>	50,190 kg <sup>(14)</sup>	110,209 lb <sup>(28)</sup>	49,990 kg (14)	108,136 lb	49,050 kg	102,955 lb	46700 kg
111,774 lb <sup>(15)</sup>	50,700 kg <sup>(1)</sup>	111,333 lb <sup>(15)</sup>	50,500 kg <sup>(1)</sup>				
112,876 lb <sup>(16)</sup>	51,200 kg <sup>(2)</sup>	112,435 lb <sup>(16)</sup>	51,000 kg (2)				
113,978 lb <sup>(17)</sup>	51,700 kg <sup>(3)</sup>	113,538 lb <sup>(17)</sup>	51,500 kg <sup>(3)</sup>				
115,081 lb <sup>(18)</sup>	52,200 kg <sup>(4)</sup>	114,640 lb <sup>(18)</sup>	52,000 kg (4)				
116,183 lb <sup>(19)</sup>	52,700 kg <sup>(5)</sup>	115,742 lb <sup>(19)</sup>	52,500 kg (5)				
117,285 lb <sup>(20)</sup>	53,200 kg <sup>(6)</sup>	116,844 lb <sup>(20)</sup>	53,000 kg <sup>(6)</sup>				
118,388 lb <sup>(21)</sup>	53,700 kg <sup>(7)</sup>	117,947 lb <sup>(21)</sup>	53,500 kg <sup>(7)</sup>				
119,490 lb <sup>(22)</sup>	54,200 kg <sup>(8)</sup>	119,049 lb <sup>(22)</sup>	54,000 kg <sup>(8)</sup>				
120,592 lb <sup>(23)</sup>	54,700 kg <sup>(9)</sup>	120,151 lb <sup>(23</sup>	54,500 kg <sup>(9)</sup>				
121,695 lb <sup>(24)</sup>	55,200 kg <sup>(10)</sup>	121,254 lb <sup>(24)</sup>	55,000 kg <sup>(10)</sup>				
122,797 lb <sup>(25)</sup>	55,700 kg <sup>(11)</sup>	122,356 lb <sup>(25)</sup>	55,500 kg <sup>(11)</sup>				
123,899 lb <sup>(26)</sup>	56,200 kg <sup>(12)</sup>	123,458 lb <sup>(26)</sup>	56,000 kg (12)				
124,781 lb <sup>(27)</sup>	56,600 kg <sup>(13)</sup>	124,340 lb <sup>(27)</sup>	56,400 kg (13)				

(x) For airplanes Post-Mod. or equipped with an equivalent modification factory incorporated.

```
(1)SB 190E2-00-0001 (MTOW 50,500 kg)
                                                (15)SB 190E2-00-0015 (MTOW 111,333 lb)
(2)SB 190E2-00-0002 (MTOW 51,000 kg)
                                                (16)SB 190E2-00-0016 (MTOW 112,435 lb)
(3)SB 190E2-00-0003 (MTOW 51,500 kg)
                                                (17)SB 190E2-00-0017 (MTOW 113,538 lb)
(4)SB 190E2-00-0004 (MTOW 52,000 kg)
                                                (18)SB 190E2-00-0018 (MTOW 114,640 lb)
(5)SB 190E2-00-0005 (MTOW 52,500 kg)
                                                (19)SB 190E2-00-0019 (MTOW 115,742 lb)
^{(6)}SB 190E2-00-0006 (MTOW 53,000 kg)
                                                (20)SB 190E2-00-0020 (MTOW 116,844 lb)
                                                (21)SB 190E2-00-0021 (MTOW 117,947 lb)
(7)SB 190E2-00-0007 (MTOW 53,500 kg)
                                                (22)SB 190E2-00-0022 (MTOW 119,049 lb)
(8)SB 190E2-00-0008 (MTOW 54,000 kg)
                                                (23)SB 190E2-00-0023 (MTOW 120,151 lb)
(9)SB 190E2-00-0009 (MTOW 54,500 kg)
(10)SB 190E2-00-0010 (MTOW 55,000 kg)
                                                (24)SB 190E2-00-0024 (MTOW 121,254 lb)
(11)SB 190E2-00-0011 (MTOW 55,500 kg)
                                                (25)SB 190E2-00-0025 (MTOW 122,356 lb)
(12)SB 190E2-00-0012 (MTOW 56,000 kg)
                                                (26)SB 190E2-00-0026 (MTOW 123,458 lb)
(13)SB 190E2-00-0013 (MTOW 56,400 kg)
                                                (27)SB 190E2-00-0027 (MTOW 124,340 lb)
(14)SB 190E2-00-0014 (MTOW 49,990 kg)
                                                (28)SB 190E2-00-0028 (MTOW 110,209 lb)
```

## 15. Centre of Gravity Range

See Airplane Flight Manual

#### 16. Datum

A perpendicular plane to the fuselage centre line, located at 13,571 mm ahead of the wing stub front spar.

# 17. Mean Aerodynamic Chord (MAC)

3.665 m (12ft. 0 in.)

## 18. Levelling Means

See Weight and Balance Manual

# 19. Minimum Flight Crew

Two (Pilot and Co-pilot) for all types of flight

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 27 of 42

# 20. Maximum Seating Capacity & Minimum Cabin Crew

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

Passenger Seating Capacity & Cabin Configuration		Cabin crew
114	(1-111-1)	3
100	(I-III-I)	2

## 21. Exits

Exit	Number	Туре	Size mm
1 Main Fwd LH	1	Type I	750 mm (w) x 1820.9 mm (h)
2 Main Aft LH	1	Type I	635 mm (w) x 1706.1 mm (h)
3 Overwing Emergency Doors (LH)	1	Type III	601.6 mm (w) x 1032.8 mm (h)
4 Overwing Emergency Doors (RH)	1	Type III	601.6 mm (w) x 1032.8 mm (h)
5 Service (Fwd, RH)	1	Type I	611 mm (w) x 1351.6 mm (h)
6 Service (Aft RH)	1	Type I	632 mm (w) x 1373.9 mm (h)
7 Cockpit Side Window (2)	Flight Crew Emergency Exits		483 mm (w) x 508 mm (h)

# 22. Baggage/ Cargo Compartment

Location	Class	Volume m³ (ft³)
Front Fwd (Underfloor)	С	10.09 m <sup>3</sup> (356.3 ft <sup>3</sup> )
Rear Aft (Underfloor)	С	11.45 m <sup>3</sup> (404.4 ft <sup>3</sup> )

## 23. Wheels and Tyres

Nose Assy (Qty 2) Tyre/Wheel: 27 x 8.5R12 16PR / 27 x 8.5-R12\*

Main Assy (Qty 4) Tyre/Wheel: H42 x 16.0R20 24PR / H42 x 16.0-R20\* Speed Rating: 225 mph

# IV. Operating and Service Instructions

# 1. Flight Manual

Airplane Flight Manual, Document No. AFM-8457 Revision Original or later approved revisions

## 2. Mandatory Maintenance Instructions

## 2.1 Aircraft Maintenance Manual

(Customised to aircraft configuration)

## 2.2 Maintenance Review Board Report

Maintenance Review Board Report Ref: MRB-5881, Revision 0 or subsequent approved revision.

The National Requirements identified in Appendix E of the MRBR as applicable to aircraft operating under EASA jurisdiction are applicable to aircraft operating under UK CAA jurisdiction.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 28 of 42

<sup>\*</sup> The radial tyre is a standard item for ERJ190-300.

## 2.3 Airworthiness Limitations and Certification Maintenance Requirements

MRB Report (MRB-5881): Appendix A Part 1 (Certification Maintenance Requirements)

Appendix A Part 2 (Structural Inspection Fatigue Limits ALI)

Appendix A Part 3 (Fuel System Limitation Items - FSL)

Appendix A Part 4 (Life Limit Items – LLI)

## 2.4 Structural Repair Manual

SRM-6736 is applicable.

#### 3. Service Letters and Service Bulletins

As published by EMBRAER and approved by ANAC.

# V. Operational Suitability Data

## 1. Master Minimum Equipment List

MMEL revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. MMEL-5814 Rev 7 was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00230 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Master Minimum Equipment List has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-MMEL and as documented in EMBRAER 170/175/190/195 UK CAA Master Minimum Equipment List MMEL-8350, Original Revision, dated 24 July 2023.
- b. Required for entry into service by UK operator.

## 2. Flight Crew Data

The Flight Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-FCD report 170MSO092 Revision G (30 November 2020) was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Flight Crew data defined in 196MSO1055 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- b. Required for entry into service by UK operator.
- c. Pilot Type Rating: The licence endorsement for the ERJ 190-300 models aircraft is "EMB170". The ERJ 190 and the ERJ 170 series aircraft are variants of the same type of aircraft.

## 3. Cabin Crew Data

The Cabin Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-CCD report 196MSO1007 Revision B (17 June 2019) was in force as of 31 December 2020.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 29 of 42

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Cabin Crew data defined in 196MSO1056 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- b. Required for entry into service by UK operator.
- c. For cabin crew, the ERJ 190-300 aircraft model is determined to be a variant to the ERJ 190-100 model. For cabin crew, the ERJ 190-300 aircraft model is determined to be a variant to the ERJ 190/195 and ERJ 170/175 models.

## VI. Notes

Reserved.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 30 of 42

Issue: 89

#### Section 5 **EMBRAER ERJ 190-400 VARIANT**

## General

# 1. Type / Variant / Model

a) Type: **EMBRAER ERJ 190** b) Variant or Model: ERJ 190-400

## Performance Category

Α

#### **Certifying Authority** 3.

Agência Nacional De Aviação Civil - ANAC Gerência Geral de Certificação de Produtos Aeronáuticos Rua Dr. Orlando Feirabend Filho, 230 -Centro Empresarial Aquarius Torre B Andares 14 a 18, Parque Residencial Aquarius, 12.246-190 - São José dos Campos - SP Brazil

## Manufacturer

EMBRAER S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

# ANAC Certification Application Date

30 April 2015

# **EASA Validation Application Date**

20 July 2014

## **ANAC Type Certification Date**

15 April 2019

# **EASA Type Validation Date**

15 April 2019

TCDS No.: UK.TC.A.00071 Date: 04 February 2025 Page 31 of 42

## II. Certification Basis

# 1. ANAC (Certifying Authority) Type Certificate Data Sheet

ANAC Type Certificate Data Sheet No. EA-2005T13

## 2. ANAC (Certifying Authority) Certification Basis

RBAC 25 (Airworthiness Standards: Transport Category Airplanes), effective on June 12, 2013, corresponding to the 14 CFR Part 25, including amendments 25-1 through 25-134, plus the following amendments:

- Amendment 25-135 in entirety
- Amendment 25-136 in entirety

Besides the RBAC 25 amendments listed above, for the sake of harmonization between the ANAC and FAA certification basis, Embraer proposes to adopt as reference the following additional requirements:

US 14 CFR Part 25 (Airworthiness Standards: Transport Category Airplanes), including the following amendments:

- Amendment 25-137 in entirety GCF- 1608/2017 Annex 4/8
- Amendment 25-138 in entirety
- Amendment 25-139 in entirety
- Amendment 25-141 in entirety

No reversion to earlier amendments of Part 25, as prescribed under § 21.101(b)(3), was identified for this project.

## 3. EASA Airworthiness Requirements

Refer to EASA TCDS EASA, IM, A, 071.

#### 4. CAA Airworthiness Requirements

# 4.1. Applicable CS Requirements at the Reference Date

CS-25 Amdt. 14 (dated 19 December 2013)

CS 25.851(a)(6) at Amdt. 18 with regards to the equipment installation and qualification of Halon free handheld Fire Extinguishers

CS-AWO Initial Issue (dated 17 October 2003)

CS Definitions at Amendment 2

## 4.2 Reversions

CS 25.963(e)(1) is applied at Amendment 13 with respect to fuel tank protection from engine debris.

Note: For the fuel tank protection from wheel & tyre failure debris CS 25.963(e)(1) and associated CS 25.734 will be applied at Amendment 14.

## 5. Special Conditions

The following Special Conditions have been applied.

E2/B-25	Flight Envelope protection: General Requirements
E2/B-28	Flight Envelope protection: High AoA Protection
E2/B-29	Performance Credit for ATTCS During Go-Around
E2/C-26	Landing Pitchover Condition
E2/D-46	Electronic Flight Control System: Control Surface Position Awareness, Multiple Modes of Operation, Flight Control in all Attitudes

E2/D-49 Seats with Non-Traditional, Large, Non-Metallic Panels

E2/D-53 Electrical/Electronic Equipment Bay Fire Detection and Smoke Penetration

F-40B Data Link Services

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 32 of 42

F-41 Flight Recorders including Data Link Recording

E2/E-20 Water / Ice in fuel
E2/E-21 Cowl loss prevention

F-01 Protection from the effects of HIRF

E2/F-58 Security Protection of Aircraft Systems & Networks

E2/F-65 Non-rechargeable Lithium-Ion Batteries (cover to CRI to ANAC FCAR SE-

09)

#### 6. Deviations

No deviations have been granted.

# 7. Equivalent Safety Findings

The following Equivalent Safety Findings have been granted:

E2/B-24		Mis-trim Manoeuvring (cover CRI to
H'7/R_7/I	FIGGRAPHIC FINANT L'ANTROL SVETAM	IVIIE-trim IVIANCEIIVING (COVER CRITC

ANAC FCAR EV-35)

E2/D-44 Flight Control System Failure Criteria

E2/D-47 Tyre Speed Rating

E2/D-48 Emergency Exit Locator Sign (cover CRI to ANAC FCAR EI-18)

E2/D-51 Protection of Flight Crew Compartment - Reduced Energy (cover to CRI to

ANAC FCAR EI-16)

E2/D-69
Aerodynamic Seals and Flap track fairings compliance to CS 25.867
E2/D-72
Minor Obstruction to Type III Exit (cover CRI to ANAC FCAR EI-29)
E2/D-73
Combined Aircraft Pressurization Outflow and Positive Pressure
Differential Relief Valves (cover CRI to ANAC FCAR SM-18)

E2/E-22 PW1900G Nacelle designated fire zones

E2/E-34 Lack of On/Off Switch for Automatic Takeoff Thrust Control System

(ATTCS) (cover CRI to ANAC FCAR PR-18)

F-47 Lavatory Oxygen System Restoration

E2/F-64 Pneumatic Systems Harmonized 25.1438 (cover CRI to ANAC FCAR SM-

21)

E2/F-68 Crew Determination of Quantity of Oxygen in Lavatory and Cabin Oxygen

(cover CRI to ANAC FCAR SM-11)

E2/F-70 Determination of Minimum Oxygen Flow for the Passenger Oxygen

System (cover CRI to ANAC FCARs SM-10 and SM-12)

E2/F-75 Position Lighting Systems Maximum Overlapping Intensity Deviations

(cover CRI to ANAC FCAR SE-14)

E2/G-05 Digital only Display for Powerplant System Indications

## 8. Environmental Protection Standards

Noise: CS-36 Amdt. 3 (dated 29 January 2013) (see TCDSN

UK.TC.00071 for details)

Prevention of intentional fuel venting: CS-34 Amdt. 1 (dated 28 January 2013)

## 9. Operational Suitability Data Requirements

The UK CAA type certification basis with respect to Operational Suitability Data (OSD) is defined as follows:

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 33 of 42

MMEL: As per CRI A-MMEL, the applicable certification basis for the establishment of Operational

Suitability Data (OSD) MMEL is:

JAR MMEL/MEL Amendment 1, Section 1 with CS-MMEL Book 2 Initial issue as AMC/GM.

FCD: The applicable certification basis for the establishment of Operational Suitability Data (OSD) Flight

Crew is:

CS-FCD, Initial Issue, dated 31 January 2014.

CCD: As per CRI A-CCD, the applicable certification basis for the establishment of Operational Suitability

Data (OSD) Cabin Crew is:

CS-CCD, Initial Issue, dated 31 January 2014.

## III. Technical Characteristic and Operating Limitations

#### 1. Production Basis

Manufactured under Production Certificate (ANAC COP E-7203-1)

# 2. Type Design Definition

Defined by Report 196TDD400 "Type Design Standard Document" at Revision A.

## 3. Description

Low wing jet transport with a conventional tail unit configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.

The structure is conventional, with an aluminium-alloy fuselage, wing, tail-plane and fin; while ailerons, flaps, spoilers, elevator, and rudder are of composite material. The landing gear is retractable tricycle type, and twin wheeled, with carbon main landing gear wheel brakes.

## 4. Equipment

Required equipment is listed in Embraer Document Reference 196TDD400: "Type Design Standard Document" at Revision A.

# 5. Dimensions

Length 41.603 m (136 ft 49 in) Span 35.124 m (115 ft 2 in) Height 10.71 m (35 ft 2 in) Wing Area 103 m<sup>2</sup> (1108.7 ft<sup>2</sup>)

## 6. Engines

Two Pratt & Whitney Turbofan engines, models: PW1921G or PW1923G or PW1923G-A

Limitations: See Engine Type Data Sheet No. IM.E.090 Issue 7 dated 12 December 2019 or Airplane Flight Manual

# 7. Auxiliary Power Unit

Pratt & Whitney Rzesów APS2600[E]

Limitations: Refer to the APU ETSO and DDP referenced therein

# 8. Propellers

Not applicable.

## 9. Fluids (Fuel, Oil, Additives, Hydraulics)

Refer to applicable approved manuals

## 10. Fluid Capacities

Refer to applicable approved manuals

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 34 of 42

# 11. Airspeed Limits:

See Airplane Flight Manual

## 12. Maximum Operating Altitude

12,497 m (41,000 ft) pressure altitude

# 13. All Weather Capability

Cat II, CAT III Fail-Passive Autoland without Rollout Guidance

#### 14. Maximum Certified Masses

190-400 Phase							
Taxi an	d Ramp	Take-off		Landing		Zero Fuel	
122,136 lb <sup>(1)</sup>	55,400 kg <sup>(1)</sup>	121,695 lb <sup>(1)</sup>	55,200 kg <sup>(1)</sup>	119,049 lb	54,000 kg	114,309 lb	51,850 kg
123,238 lb <sup>(2)</sup>	55,900 kg <sup>(2)</sup>	122,797 lb <sup>(2)</sup>	55,700 kg <sup>(2)</sup>				
124,340 lb <sup>(3)</sup>	56,400 kg (3)	123,899 lb <sup>(3)</sup>	56,200 kg <sup>(3)</sup>				
125,443 lb <sup>(4)</sup>	56,900 kg (4)	125,002 lb <sup>(4)</sup>	56,700 kg <sup>(4)</sup>				
126,545 lb <sup>(5)</sup>	57,400 kg (5)	126,104 lb <sup>(5)</sup>	57,200 kg (5)				
127,647 lb <sup>(6)</sup>	57,900 kg (6)	127,206 lb <sup>(6)</sup>	57,700 kg <sup>(6)</sup>				
129,749 lb <sup>(7)</sup>	58,400 kg <sup>(7)</sup>	128,309 lb <sup>(7)</sup>	58,200 kg <sup>(7)</sup>				
129,852 lb <sup>(8)</sup>	58,900 kg (8)	129,411 lb <sup>(8)</sup>	58,700 kg <sup>(8)</sup>				
130,954 lb <sup>(9)</sup>	59,400 kg <sup>(9)</sup>	130,513 lb <sup>(9</sup>	59,200 kg <sup>(9)</sup>				
132,056 lb <sup>(10)</sup>	59,900 kg (10)	131,615 lb <sup>(10)</sup>	59,700 kg (10)				
133,159 lb <sup>(11)</sup>	60,400 kg (11)	132,718 lb <sup>(11)</sup>	60,200 kg (11)				
134,261 lb <sup>(12)</sup>	60,900 kg (12)	133,820 lb <sup>(12)</sup>	60,700 kg (12)				
135,363 lb <sup>(13)</sup>	61,400 kg (13)	134,922 lb <sup>(13)</sup>	61,200 kg (13)				
136,265 lb <sup>(14)</sup>	61.700 kg (14)	135,584 lb <sup>(14)</sup>					
137,127 lb <sup>(15)</sup>	62,200 kg <sup>(15)</sup>	136,686 lb <sup>(15)</sup>	61,500 kg <sup>(14)</sup> 62,000 kg <sup>(15)</sup>				
	_						

<sup>(</sup>x) For airplanes Post-Mod. or equipped with an equivalent modification factory incorporated.

# 15. Centre of Gravity Range

See Airplane Flight Manual

## 16. Datum

A perpendicular plane to the fuselage centre line, located at 15, 903 mm ahead of the wing stub front spar.

# 17. Mean Aerodynamic Chord (MAC)

3.665 m (12ft. 0 in.)

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 35 of 42

<sup>(1)</sup>SB 190E2-00-0029 (MTOW 55,200 kg - 121,695 lb)

<sup>(2)</sup>SB 190E2-00-0030 (MTOW 55,700 kg - 122,797 lb)

<sup>(3)</sup>SB 190E2-00-0031 (MTOW 56,200 kg - 123,899lb)

<sup>(4)</sup>SB 190E2-00-0032 (MTOW 56,700 kg - 125,002 lb)

<sup>(5)</sup>SB 190E2-00-0033 (MTOW 57,200 kg - 126,104 lb)

<sup>(6)</sup>SB 190E2-00-0034 (MTOW 57,700 kg – 127,206 lb)

<sup>(7)</sup>SB 190E2-00-0035 (MTOW 58,200 kg - 128,309 lb)

<sup>(8)</sup>SB 190E2-00-0036 (MTOW 58,700 kg - 129,411 lb)

<sup>(9)</sup>SB 190E2-00-0037 (MTOW 59,200 kg - 130,513 lb)

<sup>(10)</sup>SB 190E2-00-0038 (MTOW 59,700 kg - 131,615 lb)

<sup>(11)</sup> SB 190E2-00-0039 (MTOW 60,200 kg - 132,718 lb)

<sup>(12)</sup> SB 190E2-00-0040 (MTOW 60,700 kg - 133,820 lb)

<sup>(13)</sup> SB 190E2-00-0041 (MTOW 61,200 kg - 134,922 lb)

<sup>(</sup>MTOW 61,500 kg - 135,584 lb)

 $<sup>^{(15)}</sup>$ SB 190E2-00-0053 (MTOW 62,000 kg - 136,686 lb)

# 18. Levelling Means

See Weight and Balance Manual

# 19. Minimum Flight Crew

Two (Pilot and Co-pilot) for all types of flight

# 20. Maximum Seating Capacity

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

Passen	Cabin crew	
146	(1-111-111-1)	3
100	(I-III-III-I)	2

## 21. Exits

Exit	Number	Туре	Size mm	
1 Main Fwd LH	1	Type I	750 mm (w) x 1820.9 mm (h)	
2 Main Aft LH	1	Type I	635 mm (w) x 1706.1 mm (h)	
3 Overwing Emergency Doors (LH)	1	Type III	601.6 mm (w) x 1032.8 mm (h)	
4 Overwing Emergency Doors (RH)	1	Type III	601.6 mm (w) x 1032.8 mm (h)	
5 Service (Fwd, RH)	1	Type I	611 mm (w) x 1351.6 mm (h)	
6 Service (Aft RH)	1	Type I	632 mm (w) x 1373.9 mm (h)	
7 Cockpit Side Window (2)	Flight Crew Emergency Exits		483 mm (w) x 508 mm (h)	

# 22. Baggage/ Cargo Compartment

	I	
Location	Class	Volume m³ (ft³)
Front Fwd (Underfloor)	С	14.77 m <sup>3</sup> (521.6 ft <sup>3</sup> )
Rear Aft (Underfloor)	С	15.20 m <sup>3</sup> (536.8 ft <sup>3</sup> )

# 23. Wheels and Tyres

Nose Assy (Qty 2) Tyre/Wheel: 27 x 8.5R12 16PR / 27 x 8.5-R12\*

Main Assy (Qty 4) Tyre/Wheel: H42 x 16.0R20 24PR / H42 x 16.0-R20\* Speed Rating: 225 mph

## IV. Operating and Service Instructions

# Flight Manual

Airplane Flight Manual, Document No. AFM-8457 Revision Original or later approved revisions

# 2. Mandatory Maintenance Instructions

## 2.1 Aircraft Maintenance Manual

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 36 of 42

<sup>\*</sup> The radial tyre is a standard item for ERJ190-400.

(Customised to aircraft configuration)

# 2.2 Maintenance Review Board Report

Maintenance Review Board Report Ref: MRB-5881, Revision 0 or subsequent approved revision.

The National Requirements identified in Appendix E of the MRBR as applicable to aircraft operating under EASA jurisdiction are applicable to aircraft operating under UK CAA jurisdiction.

## 2.3 Airworthiness Limitations and Certification Maintenance Requirements

MRB Report (MRB-5881): Appendix A Part 1 (Certification Maintenance Requirements)

Appendix A Part 2 (Structural Inspection Fatigue Limits ALI)

Appendix A Part 3 (Fuel System Limitation Items - FSL)

Appendix A Part 4 (Life Limit Items – LLI)

# 2.4 Structural Repair Manual

SRM-6736 is applicable.

#### 3. Service Letters and Service Bulletins

As published by EMBRAER and approved by ANAC.

## V. Operational Suitability Data

# 1. Master Minimum Equipment List

MMEL revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. MMEL-5814 Rev 7 was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00230 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Master Minimum Equipment List has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-MMEL and as documented in EMBRAER 170/175/190/195 UK CAA Master Minimum Equipment List MMEL-8350, Original Revision, dated 24 July 2023.
- b. Required for entry into service by UK operator.

# 2. Flight Crew Data

The Flight Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and were accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-FCD report 170MSO092 Revision G (30 November 2020) was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- The Flight Crew data defined in 196MSO1055 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- b. Required for entry into service by UK operator.
- Pilot Type Rating: The licence endorsement for the ERJ 190-400 models aircraft is "EMB170". The ERJ 190 and the ERJ 170 series aircraft are variants of the same type of aircraft.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 37 of 42

## 3. Cabin Crew Data

The Cabin Crew Data revisions up to 31 December 2020 were approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.IM.A.071 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. OSD-CCD report 196MSO1007 Revision B (17 June 2019) was in force as of 31 December 2020.

Following EU-exit, the updated Operational Suitability Data with a specific UK reference listed below is approved by the UK CAA under UK.MAJ.00429 acting in accordance with Assimilated Regulation (EU) 2018/1139 and Assimilated Regulation (EU) No. 748/2012.

- a. The Cabin Crew data defined in 196MSO1056 Initial Issue dated 06 November 2024 or later revisions approved by the UK CAA.
- b. Required for entry into service by UK operator.
- c. For cabin crew, the ERJ 190-400 aircraft model is determined to be a variant to the ERJ 190-100 model. For cabin crew, the ERJ 190-300 aircraft model is determined to be a variant to the ERJ 190/195, the ERJ 170/175 models and the ERJ 190-300 models.

#### VI. Notes

Reserved.

TCDS No.: UK.TC.A.00071 Issue: 89
Date: 04 February 2025 Page 38 of 42

# Section 6 Administration

# Section 6 Administration

# I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
ACAS	Airborne Collision Avoidance System
AFM	Airplane Flight Manual
AMC	Acceptable Means of Compliance
ANAC	Agência Nacional De Aviação Civil (CAA Brazil)
APU	Auxiliary Power Unit
AWO	All Weather Operations
CAA	(United Kingdom) Civil Aviation Authority
CRI	Certification Review Item
CS	Certification Specification
EASA	European Union Aviation Safety Agency
EMB	EMBRAER
ERJ	Embraer Regional Jet
ES(F)	Equivalent Safety (Finding)
EWIS	Enhanced Wiring Interconnection System
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
FSL	Fuel System Limitation
HIRF	High Intensity Radiated Field
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
JAA	Joint Aviation Authorities
JAR	Joint Aviation Requirements
LLI	Life Limited Item
MMEL	Master Minimum Equipment List
MRB	Maintenance Review Board
NPA	Notice of Proposed Amendment
OSD	Operational Suitability Data
RVSM	Reduced Vertical Separation Minima
S/N	Serial Number
SB	Service Bulletin
SC	Special Condition
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TSO	Technical Standards Order

# II. Type Certificate Holder Record

TCH Record	Period
EMBRAER S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos – SP Brazil	Present.
Yaborã Indústria Aeronáutica S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos – SP Brazil	Before 01 Jan 2022
Embraer S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos – SP Brazil	Before 31 Jan 2020
Empresa Brasileira de Aeronáutica SA Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos – SP Brazil	Before Jan 2011

# III. Amendment Record

TCDS	TCDS Issue	Changes	TC Issue and
Issue No.	Date		Date
1	20 Jun 2023	The content of the initial issue of UK CAA TCDS was taken from EASA TCDS No. EASA.IM.A.071 Issue 21 dated 28 August 2020 which was the current EASA version at 31 December 2020 and therefore the version of the TCDS for the EMBRAER ERJ 190 accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. Section 1 II.2.  The following general changes have been made to reflect EU-Exit as well as corrections:  • Where relevant "EASA" removed and replaced by "UK CAA".  • General editorial corrections  • Section 1, I. – General section added to explain the relationship with the previously approved EASA TCDS and the effectivity of the UK CAA TCDS.  • Section 1, II. – Marketing designations located in the notes section in the accepted EASA TCDS moved to this new section.  • Section 2/3/4, I.7 – New section to cover the UK CAA type validation application date.  • Section 2/3/4/5, II.1 & 2 – "(Certification Authority)" added. ANAC TCDS reference corrected.  • Section 2/3/4/5, II.3 – Section added to reference EASA airworthiness requirements.  • Section 2/3/4/5, II.3 – Environmental Standards updated and reference to new UK CAA TCDSN added.  • Section 2/3/4/5, II.6 – Correction of TCDS reference.  • Section 2/3/4/5, II.6 – Correction of TCDS reference.	Issue 1 20 Jun 2023

# Section 6 Administration

TC Issue and

Issue No.	Date	Changes	Date
	_	<ul> <li>Section 2/3/4/5, V 1 – Clarification added on approved revisions.</li> <li>Section 2/3/4/5, V.2 - Clarification added on approved revisions.</li> <li>Section 2/3/4/5, V.3 - Clarification added on approved revisions.</li> <li>Section 2, VI. Notes – Note 3 updated to change "have to" to "must" to ensure requirement is clearer.</li> <li>The following changes have been made to reflect validation of design changes by the UK CAA since 01 January 2021:         <ul> <li>Cover: Yaborã Indústria Aeronáutica S.A.changed to EMBRAER S.A as the TCH.</li> </ul> </li> <li>ERJ 190-300:         <ul> <li>Section 4.II.7: Added EASA CRI E2/C-38 due to approval of UK.MAJ.00225: DCA 0190-053_00073_2018/CAA-UK Rev – (01 December 2022).</li> <li>Section 4.III.13: Update to include CAT III Fail-Passive Autoland without Rollout Guidance due to approval of UK.MAJ.00240: DCA 0190-000-00077-2020/CAA-UK Rev – (19 December 2022).</li> </ul> </li> <li>ERJ 190-400:         <ul> <li>Section 5.III.13: Update to include CAT III Fail-Passive Autoland without Rollout Guidance due to approval of UK.MAJ.00240: DCA 0190-000-00077-2020/CAA-UK Rev – (19 December 2022).</li> <li>Section 5.II.14: Increase Maximum Certified Weights for</li> </ul> </li> </ul>	
		<ul> <li>UK.MAJ.00240: DCA 0190-000-00077-2020/CAA-UK Rev – (19 December 2022).</li> <li>Section 5.II.14: Increase Maximum Certified Weights for Taxi, Ramp and MTOW by 500 Kg due to approval of UK.MAJ.00236: DCA 0190-000-00026-2020/CAA-UK</li> </ul>	
		Rev- (20 December 2022).  Other editorial changes:  • Update on the APU Supplier to Pratt & Whitney Rzeszów S.A. [ERJ 190-300 and ERJ 190-400]	
2	24 July 2023	Section 2/3/4/5.V: New UK CAA MMEL reference and approval explanation added.	Issue 1 20 Jun 2023
3	01 Aug 2023	Section 2/3/4/5.V: Correction to UK CAA MMEL reference and date of release.	Issue 1 20 Jun 2023
4	29 July 2024	Section 2/3.IV.1: UK CAA AFM part numbers added.	Issue 1 20 June 2023
5	30 July 2024	Section 2/3.IV.1: UK CAA AFM part numbers typographically updated from AFM-8422-001 to AFM-8422.	Issue 1 20 Jun 2023
6	29 August 2024	Section 2/ III /14 Maximum Certified Mass Table, A reduction of the MTOW of the ERJ 190-100 LR model from 50300 kg (110892 lb) to 45990 kg (101390 lb) as presented in the DCA 0190-000-00009-2024/CAA-UK, Revision /, as approved by UK.MAJ.00391 Rev 0 (29 August 2024). Accomplished via postmod SB SB190-00-0088.	Issue 1 20 Jun 2023
		The application of the SB190-00-0087 restores the MTOW to 50300 kg (110892 lb).  Typographical change within "(3) For airplanes post-mod. SB 190-00-0030" to "(3) For airplanes post-mod. SB 190-00-0031"	
7	08 November 2024	Section 2/3/4/5.V: UK CAA OSD (FCD & CCD) part numbers added (UK.MAJ.00429) as well as updates to reflect reference to UK law	Issue 1 20 Jun 2023
CDS No.: Uk	K.TC.A.00071		Issue: 8

TCDS No.: UK.TC.A.00071 Date: 04 February 2025

**TCDS** 

**TCDS** Issue

Changes

# Section 6 Administration

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
8	31 January 2025	Section 4/5.III.20: Maximum Passenger Capacity & Minimum Cabin Crew update for 100 passengers and 2 cabin crew configuration following approval of UK.MAJ.00398 Rev 0: DCA 0190-025-00075-2023 Revision/	Issue 1 20 Jun 2023
9	04 February 2025	Section 4/5.IV.1: UK CAA AFM part numbers added (UK.ADMIN.00140 Rev 02)	Issue 1 20 Jun 2023

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