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Issue: 13



# **TYPE CERTIFICATE DATA SHEET**

No. EASA.R.509

for AW169

**Type Certificate Holder** Leonardo S.p.A.

Helicopters Piazza Monte Grappa, 4 00195 Roma Italy

For Model: AW169

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#### **SECTION 1: AW169**

#### I. General

1. Type/ Model

1.1 Type AW1691.2 Model AW169

2. Airworthiness Category Large Rotorcraft, Category A and B

3. Type Certificate Holder Leonardo S.p.A.

Helicopters

Piazza Monte Grappa, 4 00195 Roma, Italy

4. Manufacturer See Note 2

5. Type Certification Application Date 9 February 2011

6. State of Design Authority EASA

7. EASA Type Certification Date 15 July 2015

## II. Certification Basis

Reference Date for determining the applicable requirements

For Airworthiness and Environmental Protection:

9 February 2011,

for OSD elements: 7 October 2014.

2. Airworthiness Requirements

CS-29 Amdt. 2, dated 17 November 2008

CS-29 Amdt. 3, dated 11 December 2012 for the following installations and affected areas only:

- Kit Single Rescue Hoist P/N 6F2591F00111

 50 meters Hoist P/N 6F2591F00211, except for CS 29.337 through 29.341, CS 29.571 and CS 29.29.865
 (a), (f) of CS-29 Amdt. 6, dated 17 December 2018

CS 29.1465 Vibration health monitoring of CS-29 Amdt. 5, dated 14 June 2018

CS-29 Amdt. 6, dated 17 December 2018 for Kit Enhanced Performance (P/N 6F0000F00511, 6F0000F00611) and affected areas only

#### 3. Special Conditions

SC E-12	Loss of Oil from Gearboxes Utilising a Pressurised Lubrication System
SC E-15	Extended Take-Off Power Duration
SC F-1	'HIRF Protection' in accordance with JAA Interim Policy INT/POL/27&29/1, Issue 3,
	dated 1 October 2003
SC F-21	Lithium Battery Installation
SC F-23	Non-Rechargeable Lithium Battery Installation

## 4. Equivalent Safety Findings

ESF D-02	CS 29.813(c) – 'Emergency Exit access'
ESF D-03	CS 29.807(c)(1) –'Passenger Emergency Exits other than side-of-fuselage'
ESF D-04	CS 29.811(d) 'Emergency Exit signs'
ESF D-05	CS 29.601, CS 29.603, CS 29.605, CS 29.865, CS 29.1301(d) – 'Hoist installation'
ESF D-07	CS 29.807(d)(2) – 'Ditching Emergency Exits for passengers'
ESF E-17	CS 29.923, CS 29.927 –'Rotor drive system and control mechanism tests: Endurance and additional tests by test rig'

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ESF F-18 CS 29.1305, CS 29.1521, CS 29.1549, CS 29.1309(c) 'Standby Attitude indicator power supply'

ESF G-02 CS 29.1545(b)(4) 'Airspeed indicators green arcs' ESF G-03 CS 29.1505(c)(2) "Never Exceed Speed – Power OFF"

5. Deviations none

6. Environmental Protection Requirements

6.1 Noise Requirements CS-36 Amdt. 3, see TCDSN EASA.R.509

6.2 Emission Requirements Chapter 2 of ICAO Annex 16 Volume II, Amdt. 6, Part II to

Chicago Convention (as implemented in CS-34 Initial Issue)

7. Operational Suitability Data (OSD) (For OSD elements see SECTION 2 below)

7.1 Master Minimum Equipment List (MMEL) Certification Specifications and Guidance Material for

Master Minimum Equipment List, CS-MMEL, initial issue,

dated 31 January 2014

7.2 Flight Crew Data (FCD) Certification Specifications for Operational Suitability

Data (OSD) Flight Crew Data, CS-FCD, initial issue,

dated 31 January 2014

7.3 Simulation Data (SIMD) Special Condition NPA 2013-17 (CS-SIMD),

dated 27 August 2013

7.4 Maintenance Certifying Staff Data (MCSD) reserved

# III. Technical Characteristics and Operational Limitations

Type Design Definition Doc. No. 169F0272N002

2. Description Large twin-engine helicopter, conventional configuration,

5-blade fully articulated interblade main rotor, 3-blade fully articulated tail rotor, retractable tricycle landing gear.

3. Equipment As per compliance with certification basis and included in

Type Design Definition Document

4. Dimensions

4.1 Fuselage Length: 12.19 m

Width hull: 2.15 m Height: 3.88 m

4.2 Main Rotor Diameter: 12.12 m
4.3 Tail Rotor Diameter: 2.40 m

5. Engine

5.1 Model Pratt & Whitney Canada

2 x Model PW210A

or,

2 x Model PW210A1 (helicopters with Kit Enhanced

Performance installed)

5.2 Type Certificate TCCA TC/TCDS: E-36

EASA TC/TCDS: EASA IM.E.126

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## 5.3 Limitations

In accordance with PW210A Pratt & Whitney Canada Installation Manual (Ref. to 30L2374)

## 5.3.1 Installed Engine Limits

## PW210A

	Rating	Max Torque [% (Nm)]	Max ITT [°C]	Max NG [% (rpm)]	Max NF [% (rpm)]
	Continuous	118.6 (395.9)	868	96.5 (49 200)	
AEO	Take-off 5 min	125.0 (420.2)	020	98.2 (50 100)	107 (28 120)
	Take-off 30 min <sup>(*)</sup>	125.9 (420.3)	930	98.2 (50 100)	
OEI	Continuous	148.3 (494.9)	941	98.9 (50 430)	107 (28 120)
OEI	2.5 min	174.7 (583)	1 020	100.7 (51 360)	107 (28 120)

<sup>(\*)</sup> if Core Avionic SW phase 4.0 P/N 6F4600A00114, or later, is installed.

## PW210A1 (helicopters with Kit Enhanced Performance installed)

	Rating	Max Torque [% (Nm)]	Max ITT [°C]	Max NG [% (rpm)]	Max NF [% (rpm)]
	Continuous	118.6 (395.9)	868	96.5 (49 200)	
AEO	Take-off 5 min	125.9 (420.3)	937	98.2 (50 100)	107 (28 120)
	Take-off 30 min	125.9 (420.3)	937	98.2 (50 100)	
OEI	Continuous	148.3 (494.9)	937	98.8 (50 400)	107 (20 120)
UEI	2.5 min	185 (618.3)	1 020	100.7 (51 360)	107 (28 120)

## 5.3.2 Transmission Torque Limits

## PW210A

	Rating	Max Torque [% (Nm)]	Input speed [rpm]	Input power [hp]
	Max continuous	2 x 100 (334)		1 350 (675 x 2)
AEO	5 min	2 444 (274)	14 400	1 500 (750 x 2)
	30 min <sup>(*)</sup>	2 x 111 (371)		1 500 (750 x 2)
051	Max continuous	140 (470)	14.400	950
OEI	2.5 min	174 (583)	14 400	1 180

<sup>(\*)</sup> if Core Avionic SW phase 4.0 p/n 6F4600A00114, or later, is installed.

## PW210A1 (helicopters with Kit Enhanced Performance installed)

	Rating	Max Torque [% (Nm)]	Input speed [rpm]	Input power [hp]
	Max continuous	2 x 100 (334)		1 350 (675 x 2)
AEO	5 min	2 x 111 (371)	14 400	1 650 (825 x 2)
	30 min			1 650 (825 x 2)
OFI	Max continuous	148 (493)	14.400	1000
OEI	2.5 min	185 (618)	14 400	1 250

6. Fluids

6.1 Fuel JET A, JET A1, JP8, JP8+100, No. 3 Jet Fuel (for code no.

specification and more details refer to approved RFM)

6.2 Oil Transmissions: AeroShell Turbo Oil 555 (DoD-L-85734).

No different specification or brand allowed.

Engine: Refer to approved RFM



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Hydraulics: MIL-PRF-83282,

MIL-PRF-87257 (as alternative)

6.3 Additives Refer to approved RFM

6.4 Coolant R134a

7. Fluid capacities

7.1 Fuel

	Total capacity [litres (kg <sup>(*)</sup> )]	Unusable [litres (kg <sup>(*)</sup> )]	
Two main fuel tanks (LH and RH)	1 130 (904)	20 (16)	
(*)Fuel mass defined assuming a standard fuel density of 0.8 kg/litre			

7.2 Oil

	Quantity [litres (kg <sup>(*)</sup> )]
Engine (each)	min 5.25 (4.948) - max 5.78 (5.448)
Main gearbox (min/max)	min 17 (16.968) - max 19 (18.964) (16.8 + 2.2 for oil cooler, oil ducts and filter)
Intermediate gearbox	0.77(0.768)
Tail gearbox	1.10 (1.098)
Hydraulic (per each Power Control Module)	1.3 (1.1)
(*) Oil mass at 80°C	

7.3 Coolant System Capacity

2.1 kg

8. Air Speed Limitations

VNE Power On AEO:	165 KIAS
V <sub>NE Power On AEO</sub> *:	160 KIAS
VNE Power On OEI:	135 KIAS
VNE Power Off:	125 KIAS

For reduction of the  $V_{\text{NE}}$  with density altitude (HP/OAT), refer to approved RFM.

(\*) if Core Avionics SW Phase 6.0, or later is installed

## 9. Rotor Speed Limitations

Power On AEO <sup>(*)</sup>			
Condition	[rpm]	[%]	
Minimum Continuous	317.56	96.0	
Maximum Continuous	354.72	103.0	
Pow	ver On OEI		
Condition	[rpm]	[%]	
Minimum Cautionary	304.05	90.0	
Minimum Continuous	341.21	101.0	
Maximum Continuous	354.72	105.0	
Power Off			
Condition	[rpm]	[%]	
Minimum Continuous	304.05	90.0	
Maximum Continuous	371.61	110.0	

<sup>(\*)</sup> Maximum and minimum continuous values of the flight envelope. AVSR provides a governing of the rotor speed

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at different values depending on airspeed (TAS/IAS\*\*) and density altitude. As the NR datum is variable, NR green band is variable as well ( $\pm 2\%$  across the datum

value).

(\*\*) IAS if Core Avionics SW Phase 6.0, or later is installed Refer to approved RFM for additional rotor speed limitations

#### 10. Maximum Operating Altitude and Temperature

10.1 Altitude Maximum operating altitude

15 000 ft\* for operation at gross mass up to 4 600 kg,

and,

10 000 ft\* for operation at gross mass above 4 600 kg without Kit Enhanced Performance installed, or, 15 000 ft\* for operation at gross mass above 4 600 kg with Kit Enhanced Performance is installed

Maximum Take-off and Landing altitude

15 000 ft\* for operation at gross mass up to 4 600 kg,

and,

10 000 ft\* for operation at gross mass above 4 600 kg without Kit Enhanced Performance installed, or, 15 000 ft\* for operation at gross mass above 4 600 kg

with Kit Enhanced Performance is installed \* altitude in PA/DA (whichever occurs first)

10.2 Temperature  $-40^{\circ}\text{C} \div +50^{\circ}\text{C} \text{ (ISA+35°C)}$ 

-40°C  $\div$  +50°C (ISA+35°C) for Cat A operations

For variation of temperature limitations with altitude refer to approved RFM and applicable supplement

11. Operating Limitations VFR day and night and IFR operations in non-icing

conditions

12. Maximum Mass Take-off and landing: 4 600 kg, or,

4 800 kg, if P/N 6F0000F00211

is installed

Taxi and Towing: 4 650 kg, or,

4 850 kg, if P/N 6F0000F00211

is installed

13. Centre of Gravity Range Refer to approved RFM

14. Datum Longitudinal:

The datum plane (STA 0) is located at 3 528 mm forward

to the front jack point

Lateral:

The datum plane (B.L. 0) is located at ±225 mm inboard

of LH/RH front jack points.

15. Levelling Means Plumb line from ceiling reference point to index plate on

floor of baggage compartment; clinometer.

16. Minimum Flight Crew One (1) pilot for VFR day and night and IFR.

For NVG operations, two (2) pilots or one (1) pilot and one (1) crew member required. Both pilot and crew member must be equipped with NVGs (see Note 3).

17. Maximum Passenger Seating Capacity

10 (if the kit 10 Seats Internal Arrangement

P/N 6F2520F00111 is installed)

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18. Passenger Emergency Exit 2 on each side of the passenger cabin

1 on each side of the passenger cabin, if the kit Sliding Aft Passenger Windows P/N 6F5630F00411 is installed.

19. Maximum Baggage/ Cargo Loads 250 kg located in the baggage/cargo compartment

20. Rotor Blade Control Movement For rigging information, refer to RFM

21. Auxiliary Power Unit (APU) non-

22. Life-limited Parts Refer to the Airworthiness Limitation Section (ALS) of the

Maintenance Manual

23. Wheels and Tyres MLG wheel assembly with 18x5.5 tubeless tyres

NLG wheel assembly with 5x5.5 tubeless tyres

## IV. Operating and Service Instructions

Flight Manual Doc. No. 169F0290X001, initial issue, dated 8 July 2015,
 EASA approved 15 July 2015, or later approved revisions

Doc. No. 169F0290X012, initial issue, dated 21 December 2021, EASA approved 21 December 2021, or later approved revisions, only for helicopters with Kit

**Enhanced Performance installed** 

2. Maintenance Manual 'AW169 Maintenance Planning Information'

Doc. No. 69-A-AMPI-00-P, EASA accepted 15 July 2015, or

later revisions, including:

- Chapter 4 ALS, EASA approved dated 15 July 2015, or later approved revisions;

- Chapter 5 with Scheduled Maintenance Requirements

'Maintenance Review Board Report AW169 Helicopter'

Doc. No. 169F0000M005

'AW169 Maintenance Publication'

Doc. No. 69-A-AMP-00-X

'AW169 Material Data Information'

Doc. No. 69-A-AMDI-00-X

'AW169 Corrosion Control Publication'

Doc. No. 69-A-ACCP-00-X

'AW169 Fault Isolation Publication'

Doc. No. 69-A-AFIP-00-X

'AW169 Wiring Data Publication'

Doc. No. 69-A-AWDP-00-X

3. Structural Repair Manual 'AW169 Structural Repair Publication'

Doc. No. 69-A-ASRP-00-X

'AW169 Component Repair and Overhaul Publication'

Doc. No. 69-A-CR&OP-00-X

4. Weight and Balance Manual Refer to the Section 6 of the RFM and applicable RFMS

5. Illustrated Parts Catalogue 'AW169 Illustrated Tool and Equipment Publication'

Doc. No. 69-A-ITEP-00-X 'AW169 Illustrated Part Data' Doc. No. 69-A-IPD-00-X

6. Service Letters and Service Bulletins As published by AgustaWestland, Finmeccanica or

Leonardo

7. Required equipment As per compliance with certification basis and included in

Type Design Definition standard.



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Refer to approved RFM and MMEL.

Refer to EASA approved RFM and related supplements for other approved mandatory and optional equipment.

#### V. Notes

1. Manufacturer's eligible serial numbers: 69005, and subsequent

## 2. Manufacturer:

AgustaWestland S.p.A. in Italy(\*)

(\*) Effective on 1 January 2016, AgustaWestland S.p.A. ownership was transferred to Finmeccanica S.p.A.; Effective on 28 July 2016, Finmeccanica S.p.A. name was changed into Leonardo S.p.A.

#### 3. NVG Operations:

Night Vision Goggle Operations are permitted according to RFM 169F0290X001 Supplement No. 16. The aircraft configuration involving internal/external emitting/reflecting equipment approved for use with

NVG is described in the Report N. 169F3360A001 'AW169 NVG Compatibility Reference Handbook'.

Subsequent modifications and deviations to the NVG helicopter configuration shall be managed in accordance with document 169F3360E001 'AW169 Helicopter NVG Policy'.

4. Installation of the TSS-4100 system P/N 6F0630A03113, has been demonstrated compliant with Certification Specifications for Airborne Communications Navigation and Surveillance, CS-ACNS initial issue, dated 17 December 2013

\* \* \*

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## **SECTION 2: OPERATIONAL SUITABILITY DATA (OSD)**

The OSD elements listed below are approved by the European Union Aviation Safety Agency as per Commission Regulation (EU) 748/2012, as amended by Commission Regulation (EU) No 69/2014.

#### OSD Elements

#### 1. MMEL

AW169 Master Minimum Equipment List - MMEL, Doc.169F0270Q003, issue A dated 16 July 2015, EASA approved on 21 July 2015, or later EASA approved revisions

#### 2. Flight Crew Data

AW169 Operational Suitability data – Flight Crew, Doc. OSD.FC AW169, issue A dated 10 July 2015, EASA approved on 21 July 2015, or later EASA approved revisions.

## 3. SIM Data

For Type Certificate Holder:

AW169 FTD Validation Data Roadmap doc. THSS-169F1920U014, issue B, dated 7 May 2015, EASA approved on 19 January 2016, or later EASA approved revisions.

AW169 FTD Flight Test Results Report doc. THSS-169F1920N004, issue A, dated 7 May 2015, EASA approved on 19 January 2016, or later EASA approved revisions.

AW169 FFS Validation Data Roadmap doc. 169F1920U01, issue A, dated 19 May 2016, EASA approved on 13 December 2016, or later EASA approved revisions.

AW169 FFS Level D Flight Test Results Report doc. 169F1920N001, issue A, dated 25 May 2016, EASA approved on 13 December 2016, or later EASA approved revisions.

#### 4. Maintenance Certifying Staff Data

reserved

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## **SECTION: ADMINISTRATIVE**

# I. Acronyms and Abbreviations

AEO	All Engines Operative	NVG	Night Vision Goggle
Amdt.	Amendment	OAT	Outside Air Temperature
AW	AgustaWestland	OEI	One Engine Inoperative
B.L.	Butt Line	OSD	Operational Suitability Data
C.G.	Centre of Gravity	P/N	Part number
CRI	Certification Review Item	PA	Pressure altitude
CS	Certification Specification	RFM	Rotorcraft Flight Manual
DA	Density altitude	RFMS	Rotorcraft Flight Manual Supplement
Doc.	Document	RH	Right Hand
HIRF	High Intensity Radiated Fields	s/n	Serial number
IFR	Instrument Flight Rules	STA	Station
ISA	International Standard Atmosphere	TCCA	Transport Canada Civil Aviation
JAA	Joint Aviation Authorities	TCDSN	Type Certificate Data Sheet Noise
LH	Left Hand	TOP	Take-off Power
MLG	Main Landing Gear	VFR	Visual Flight Rules
NLG	Nose Landing Gear	$V_{NE}$	Velocity Never Exceed
No.	Number		

## II. Type Certificate Holder Record.

Type Certificate Holder	Period
AgustaWestland S.p.A Piazza Monte Grappa, 4, 00195 Roma, Italy	from 15 July 2015 until 31 December 2015
Finmeccanica S.p.A. Helicopter Division, Piazza Monte Grappa, 4, 00195 Roma, Italy	From 1 January 2016 until 14 July 2016
Leonardo S.p.A. Helicopters, Piazza Monte Grappa, 4, 00195 Roma, Italy	since 15 July 2016

# III. Change Record

Issue	Date	Changes	TC issue
Issue 1	15 Jul 2015	Initial issue of EASA TCDS	Initial Issue, 15 July 2015
Issue 2	21 Jul 2015	AW legal office moved to Rome; OSD approvals for MMEL and FCD	
Issue 3	13 Jan 2016	TCH company name changed and ownership transferred to Finmeccanica S.p.A.	Re-issued 13 January 2016
Issue 4	19 Jan 2016	OSD SIM added	
Issue 5	4 Aug 2016	TCH company name changed from Finmeccanica S.p.A. to Leonardo S.p.A; Kit Single Rescue Hoist, Kit 10 Seats Internal Arrangement, and Kit Sliding Aft Passenger Windows introduced.	Re-issued 4 August 2016
Issue 6	18 Jan 2017	Introduction of ESF to CS 29.807 (d)(2) – "Ditching Emergency Exits for Passengers"; Take-off and landing	

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Issue	Date	Changes	TC issue
		altitude envelope extended; Introduction of Kit increased Gross Weight 4 800 kg; OSD SIM extended to FFS level D.	
Issue 7	4 Oct 2017	Certification Basis: references to CRI are removed; Environmental Protection Requirements are condensed and make direct reference to TCDSN for Noise Requirements; maximum take-off and landing altitude changed for gross mass above 4 600 kg; introduction of clinometer as admissible levelling means; other minor corrections included.	
Issue 8	30 Jan 2018	Introduction of Special Condition 'Non Rechargeable Lithium Battery Installation'; introduction of China No. 3 Jet Fuel	
Issue 9	19 Dec 2018	II.3: Special Condition Extended TOP Duration added; II.7.: CS 29.1465 Amdt. 5 added; III.5.3: 'Extended TOP 30 min' added.	
Issue 10	22 Dec 2020	II.3.,6.: SC/ESF references updated; II.6.: ESF 'Never Exceed Speed – Power OFF' introduced II.7.: Elect to comply for 50 m hoist kit P/N 6F2591F00211; III.8.: V <sub>NE</sub> added (see Core Avionics SW); III.9.: IAS added (see Core Avionics SW); IV.2.: AMPI initial release clarified; III.4.1., IV.1. V.3.: Correction of typos.	
Issue 11	21 Jul 2021	SECTION 1: II.2-II.7: adapted to TCDS format policy; SECTION 2: OSD I.1-I.5: moved to SECTION 1, II.7.; SIM Data for STC 10076972 added to 3.	
Issue 12	2 Nov 2021	STC 10076972 removed, for its certification related information please refer to 'List of EASA STC'; SECTION 1: II.7.3 and SECTION 2, 3.: reference removed	
Issue 13	12 Jan 2022	Introduction of: II.2: CS-29 Amdt. 6 for Kit Enhanced Performance; II.4: ESF 'Rotor drive system and control mechanism tests: Endurance and additional tests by test rig'; III.5.1: Engine Model PW210A1; III.5.3.1: Installed Engine Limitations for PW210A1; III.5.3.2: Transmission Torque Limits for PW210A1; III.10.1: max. operating altitude for MTOM above 4 600 kg introduced for Kit Enhanced Performance. IV.1: Flight Manual for Kit Enhanced Performance; V.4: CS-ANCS for Installation P/N 6F0630A03113.	

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