TCDSN No.: EASA.R.005 A109

Page 1 of 18 Issue: 9 Date: 15 August 2016



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.R.005

for

A109

Type Certificate Holder: Leonardo S.p.A.

Piazza Monte Grappa 4 00195 Roma Italy

For models: A109 A109N

> A109S A109A A109AII A119 A109C AW109SP A109E AW119 MKII

A109K2 A109LUH



TCDSN No.: EASA.R.005 Page 2 of 18

Issue: 9 Date: 15 August 2016

INTENTIONALLY LEFT BLANK



Issue: 9

Page 3 of 18 Date: 15 August 2016

Type Certificate Holder Leonardo S.p.A. Aircraft Type Designation A109

Engine Manufacturer Allison Engine Type Designation 250-C20

Additional modifications essential to meet the requirements or needed to attain the

certificated noise levels

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter

EASA	Maximu	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL	
Record No.	Take-off (kg)	Landing (kg)	Level	Limit	Level	Limit	Level	Limit	See Note
D267	2,450	2,450	-	-	-	-	-	-	2

None



Issue: 9

Page 4 of 18 Date: 15 August 2016

Type Certificate Holder Leonardo S.p.A. Aircraft Type Designation A109A

Engine Manufacturer Allison Engine Type Designation 250-C20B

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter

ΓΛΩ	Maximu	ım Mass	Take-O	ff EPNL	Overflig	ht EPNL	Approach EPNL		Soc
EASA Record No.	Take-off (kg)	Landing (kg)	Level	Limit	Level	Limit	Level	Limit	See Note
D191	2,600	2,600	-	-	-	-	-	-	2
D268	2,450	2,450	-	-	-	-	-	-	2



Issue: 9

Page 5 of 18 Date: 15 August 2016

Type Certificate Holder Leonardo S.p.A. Aircraft Type Designation A109All

Engine Manufacturer Allison Engine Type Designation 250-C20B

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter

EASA -	Maximu	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL	
Record No.	Take-off (kg)	Landing (kg)	Level	Limit	Level	Limit	Level	Limit	See Note
D192	2,600	2,600	-	-	-	-	-	-	2



Issue: 9

Page 6 of 18 Date: 15 August 2016

Type Certificate Holder Leonardo S.p.A. Aircraft Type Designation A109All

Engine Manufacturer Allison Engine Type Designation 250-C20R/1

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter

EASA	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		See
Record No.	Take-off (kg)	Landing (kg)	Level	Limit	Level	Limit	Level	Limit	Note
D193	2,600	2,600	-	-	-	-	-	-	2



Issue: 9

Page 7 of 18

Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ A109C

Engine Manufacturer¹ Engine Type Designation¹ 250-C20R/1 Allison

Additional modifications essential to meet the requirements or needed to attain the None

certificated noise levels1

ICAO Annex 16, Volume I Edition / Amendment Chapter¹ **Noise Certification Basis**

EASA	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D194	2,720	2,720	92.4	94.4	88.8	93.4	90.1	95.4	-

¹ See Note 1.



Issue: 9

Page 8 of 18 Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ A109E

Engine Manufacturer¹ Turbomeca Engine Type Designation¹ Arriel 2K1

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 8 (8.4.1)

EASA	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D269	2,850	2,850	91.8	94.6	91.4	93.6	93.4	95.6	-

¹ See Note 1.



Issue: 9

Page 9 of 18 Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ A109E

Engine Manufacturer¹ Pratt & Whitney Canada Engine Type Designation¹ PW206C

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 8 (8.4.1)

EASA	Maximu	ım Mass	Take-O	ff EPNL	Overflig	ht EPNL	Approa	ch EPNL	Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D195	3,000	3,000	91.7	94.8	91.3	93.8	91.7	95.8	-
D109	2,850	2,850	91.3	94.6	90.9	93.6	91.4	95.6	-

¹ See Note 1.



Issue: 9

Page 10 of 18 Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ A109K2

Engine Manufacturer¹ Turbomeca Engine Type Designation¹ Arriel 1K1

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 8 (8.4.1)

EASA	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D108	2,850	2,850	91.7	94.6	89.1	93.6	91.1	95.6	-

¹ See Note 1.



Type Certificate Holder¹

Issue: 9

Page 11 of 18 Date: 15 August 2016

Aircraft Type Designation¹ A109LUH

Engine Manufacturer¹ Turbomeca Engine Type Designation¹ Arrius 2K2

Additional modifications essential to meet the requirements or needed to attain the **None**

Leonardo S.p.A.

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment 3 Edition / Amendment 7 Chapter¹ 8 (8.4.2)

EASA	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D270	3,000	3,000	91.8	91.8	88.6	89.8	92.9	94.8	-

¹ See Note 1.



Issue: 9

Page 12 of 18 Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ A109N

Engine Manufacturer¹ Pratt & Whitney Canada Engine Type Designation¹ PW207C

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment 3 Edition / Amendment 7 Chapter¹ 8 (8.4.1)

EASA	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D327	3,175	3,175	90.5	95.0	88.4	94.0	91.2	96.0	-

¹ See Note 1.



Issue: 9

Page 13 of 18

Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ A109S

Engine Manufacturer¹ **Pratt & Whitney Canada** Engine Type Designation¹ PW207C

Additional modifications essential to meet the requirements or needed to attain the None

certificated noise levels1

Edition / Amendment 3 Edition / Amendment 7 **Noise Certification Basis** 8 (8.4.1) ICAO Annex 16, Volume I Chapter¹

EASA	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Soo
Record No.	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D5	3,175	3,175	90.5	95.0	88.4	94.0	91.2	96.0	-

¹ See Note 1.



Issue: 9

Page 14 of 18

Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ A119

Engine Manufacturer¹ **Pratt & Whitney Canada** Engine Type Designation¹ PT6B-37A

Additional modifications essential to meet the requirements or needed to attain the None

certificated noise levels1

ICAO Annex 16, Volume I Edition / Amendment Noise Certification Basis 11 (11.4.1) Chapter¹

EASA	Variant	Maximur	n Mass	Overflig	ht SEL	See
Record No.		Take-off ¹	Landing	Level 1	Limit	Note
		(kg)	(kg)			
D255	Koala	2,720	2,720	86.5	87.4	-

¹ See Note 1.



Issue: 9

Page 15 of 18 Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ AW109SP

Engine Manufacturer¹ Pratt & Whitney Canada Engine Type Designation¹ PW207C

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment 3 Edition / Amendment 7 Chapter¹ 8 (8.4.1)

EASA Record No.	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Coo
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D291	3,175	3,175	90.5	95.0	88.4	94.0	91.2	96.0	-

¹ See Note 1.



Issue: 9

Page 16 of 18 Date: 15 August 2016

Type Certificate Holder¹ Leonardo S.p.A. Aircraft Type Designation¹ AW119 MKII

Engine Manufacturer¹ Pratt & Whitney Canada Engine Type Designation¹ PT6B-37A

Additional modifications essential to meet the requirements or needed to attain the **None**

certificated noise levels1

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment 4 Edition / Amendment 8 Chapter¹ 8 (8.4.2)

EASA Record No.	Maximum Mass		Take-Off EPNL		Overflight EPNL		Approach EPNL		Coo
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	Level ¹	Limit	Level ¹	Limit	See Note
D256	2,850	2,850	90.8	91.6	88.2	89.6	91.0	94.6	-

¹ See Note 1.



TCDSN No.: EASA.R.005 Page 17 of 18

Date: 15 August 2016 Issue: 9

TCDSN EASA.R.005 Notes

- 1. Items so marked shall be included on EASA Form 45.
- 2. This aircraft type conforms with the provisions of Article 6.1 of Regulation 216/2008 without the need to comply with the Standards of ICAO Annex 16, Volume I, by virtue of the date of type certification.



TCDSN No.: EASA.R.005 Page 18 of 18

Issue: 9 Date: 15 August 2016

Change Record

Issue	Date	Changes
Issue 1	02 June 2005	Initial Issue
Issue 2	15 February 2008	Page 3: Add record D267
		Page 4: Add record D268
		Page 5: Add record D192
		Page 6: Add recprd D193
		Page 7: Add record D194
		Page 8: Add record D108
		Page 9: Add record D109
		Page 10 Add record D269
		Page 11: Add record D255
		Page 12 Add record D270
		Page 14: Add record D256
Issue 3	25 May 2009	Page 14: Add record D291
Issue 4	06 January 2010	Update of the footnote for blank records
Issue 5	25 February 2010	Record D291: Type designation revised.
Issue 6	29 November 2010	Record D327 added.
Issue 7	23 July 2012	Revised
Issue 8	18 February 2014	Name of TC-holder revised.
Issue 9	15 August 2016	TC holder changed to Leonardo S.p.A.

-END-