Date: 05 April 2016 Issue: 13

Page 1 of 11



## **TYPE-CERTIFICATE DATA SHEET FOR NOISE**

**No. EASA.A.022** 

for

**DA 40** 

**Type Certificate Holder: Diamond Aircraft Industries GmbH** 

> N.A. Otto-Str. 5 A-2700 Wiener Neustadt **AUSTRIA**

For models: DA 40

> DA 40 D DA 40 F **DA 40 NG**



TCDSN EASA.A.022 Page 2 of 11 Issue: 13 Date: 05 April 2016

## INTENTIONALLY LEFT BLANK



Page 3 of 11 Date: 05 April 2016 Issue: 13

Type Certificate Holder<sup>1</sup> Aircraft Type Designation<sup>1</sup> **Diamond Aircraft Industries GmbH DA 40** 

Engine Manufacturer<sup>1</sup> Lycoming Engine Type Designation<sup>1</sup> IO-360-M1A

**Noise Certification Basis** ICAO Annex 16, Volume I Edition / Amendment 3 Edition / Amendment 7 Chapter<sup>1</sup> 10 (10.4b)

FASA	EASA Propeller Propeller Type		Additional modifications essential to meet the	Maximum	Take-off dB(A)		Soo
EASA Record No.	Propeller Manufacturer <sup>1</sup>	Propeller Type Designation <sup>1</sup>	requirements or needed to attain the certificated noise levels	Take-off mass <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	See Note
C5112	MT-Propeller Entwicklung GmbH	MTV-12-B/180-17()	MÄM 40-227, Silencer : Diamond Aircraft D41-7800- 00-00	1,200	78.7	81.5	-

<sup>&</sup>lt;sup>1</sup> See Note 1.



Page 4 of 11 Date: 05 April 2016 Issue: 13

Type Certificate Holder<sup>1</sup> Aircraft Type Designation<sup>1</sup> **Diamond Aircraft Industries GmbH DA 40** 

Engine Manufacturer<sup>1</sup> Engine Type Designation<sup>1</sup> Lycoming IO-360-M1A

ICAO Annex 16, Volume I **Noise Certification Basis** Edition / Amendment Chapter<sup>1</sup> 10 (10.4a)

EASA Propeller		poller Propeller Type	Additional modifications essential to meet the	Maximum	Take-of	ff dB(A)	See
Record No.	Manufacturer <sup>1</sup>	Propeller Type  Designation <sup>1</sup>	requirements or needed to attain the certificated noise levels	Take-off mass <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Note
C89	MT-Propeller Entwicklung GmbH	MTV-12-B/180-17()	Silencer : Diamond Aircraft D41-7800-00-00	1,150	69.3	85.2	-

<sup>1</sup> See Note 1.



Page 5 of 11 Date: 05 April 2016 Issue: 13

Type Certificate Holder<sup>1</sup> Aircraft Type Designation<sup>1</sup> DA 40 D **Diamond Aircraft Industries GmbH** 

Engine Manufacturer<sup>1</sup> **Technify Motors GmbH** Engine Type Designation<sup>1</sup> **TAE 125-01** 

ICAO Annex 16, Volume I Edition / Amendment 3 Edition / Amendment 7 Chapter<sup>1</sup> **Noise Certification Basis** 10

ΓΛΩ	Drandlar	Proneller Tyne	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels	Maximum	Take-o	ff dB(A)	See Note
Record No. Manufacturer	Manufacturer <sup>1</sup>			Take-off mass¹ (kg)	Level <sup>1</sup>	Limit	
C3677	MT-Propeller Entwicklung GmbH	MTV-6-A/187-129	Silencer : Diamond Aircraft D4D-7806-00-00	1,150	78.7	85.2	-
C3676	MT-Propeller Entwicklung GmbH	MTV-6-A/187-129	Silencer : Diamond Aircraft D4D-7807-00-00 () OÄM 40-096	1,150	69.5	85.2	-

<sup>&</sup>lt;sup>1</sup> See Note 1.



Page 6 of 11 Date: 05 April 2016 Issue: 13

Type Certificate Holder<sup>1</sup> Aircraft Type Designation<sup>1</sup> DA 40 D **Diamond Aircraft Industries GmbH** 

Engine Manufacturer<sup>1</sup> **Technify Motors GmbH** Engine Type Designation<sup>1</sup> TAE 125-02-99

ICAO Annex 16, Volume I Edition / Amendment 4 Edition / Amendment 8 Chapter<sup>1</sup> **Noise Certification Basis** 10

ΓΛζΛ	A Propeller Propeller Type req	Duan allou Tuna	Additional modifications essential to meet the	Maximum	Take-of	f dB(A)	Coo
EASA Record No.		requirements or needed to attain the certificated noise levels	Take-off mass <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	See Note	
C3678	MT-Propeller Entwicklung GmbH	MTV-6-A/187-129	Silencer : Diamond Aircraft D4D-7807-10-00 () OÄM 40-096	1,150	73.0	85.2	-
C5521	MT-Propeller Entwicklung GmbH	MTV-6-A/187-129	Silencer : Diamond Aircraft D4D-7807-10-00 () OÄM 40-096	980	73.0	82.9	-

<sup>&</sup>lt;sup>1</sup> See Note 1.



Page 7 of 11 Date: 05 April 2016 Issue: 13

Type Certificate Holder<sup>1</sup> Aircraft Type Designation<sup>1</sup> DA 40 F **Diamond Aircraft Industries GmbH** 

Engine Manufacturer<sup>1</sup> Engine Type Designation<sup>1</sup> Lycoming O-360-A4M

**Noise Certification Basis** ICAO Annex 16, Volume I Edition / Amendment 3 Edition / Amendment 7 Chapter<sup>1</sup> 10

FACA	A Dranellar Dranellar Tuna	Additional modifications essential to meet the	Maximum	Take-off dB(A)		Cara	
EASA Record No.	Propeller Manufacturer <sup>1</sup>	Propeller Type  Designation <sup>1</sup>	requirements or needed to attain the certificated noise levels	Take-off mass¹ (kg)	Level <sup>1</sup>	Limit	See Note
C10725	Sensenich	76EM8S10-0-63	Silencer : Diamond Aircraft A099005-130	1,150	74.8	85.2	-

<sup>&</sup>lt;sup>1</sup> See Note 1.



Page 8 of 11 Date: 05 April 2016 Issue: 13

Type Certificate Holder<sup>1</sup> Aircraft Type Designation<sup>1</sup> DA 40 F **Diamond Aircraft Industries GmbH** 

Engine Manufacturer<sup>1</sup> Engine Type Designation<sup>1</sup> Lycoming O-360-A4M

**Noise Certification Basis** ICAO Annex 16, Volume I Edition / Amendment 3 Edition / Amendment 7 Chapter<sup>1</sup> 10 (10.4b)

EASA Propeller		Droneller Type	Additional modifications essential to meet the	Maximum	Take-o	ff dB(A)	See
Record No.	Manufacturer <sup>1</sup>	Propeller Type Designation <sup>1</sup>	requirements or needed to attain the certificated noise levels	Take-off mass <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Note
C5063	MT-Propeller Entwicklung GmbH	MT 188 R 135-4G	Silencer : Aerospace Welding A099005-130	1,150	75.8	80.9	-

<sup>&</sup>lt;sup>1</sup> See Note 1.



Page 9 of 11 Date: 05 April 2016 Issue: 13

Type Certificate Holder<sup>1</sup> Aircraft Type Designation<sup>1</sup> **DA 40 NG Diamond Aircraft Industries GmbH** 

Engine Manufacturer<sup>1</sup> **Austro Engine GmbH** Engine Type Designation<sup>1</sup> **E4** 

ICAO Annex 16, Volume I Edition / Amendment 6 Edition / Amendment 0 Chapter<sup>1</sup> 10 (10.4b) **Noise Certification Basis** 

FACA		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 1 100 1 100 10 10 10 10 10 10 10 10 10	Maximum	Take-o	ff dB(A)	
EASA Record No.	Propeller Manufacturer <sup>1</sup>	Propeller Type Designation <sup>1</sup>	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels	Take-off mass <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	See Note
C12122	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	MÄM 40-662 (1310 kg MTOM), E4-A (in accordance with DAI MSB E4-002) , Silencer : Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310	1,310	71.4	82.9	-
C12123	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	MÄM 40-662 and OÄM 40-334 (1310 kg MTOM and Landing Gear with Large Tyres and 1280kg Maximum Landing Mass), E4-A (in accordance with DAI MSB E4-002), Silencer: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310	1,310	72.4	82.9	-
C12619	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	MÄM 40-662 and OÄM 40-394 (1310 kg MTOM and RACC ON during T/O and Landing), E4-A (in accordance with AE MSB E4-002), Silencer: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310	1,310	71.8	82.9	-
C10356	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	OÄM 40-334 (Landing Gear with Large Tyres and 1280kg Maximum Landing Mass), E4-A (in accordance with DAI MSB E4-002), Silencer: Diamond Aircraft D44-7806-10- 00_()	1,280	75.3	82.5	-
C10357	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	OÄM 40-334 (Landing Gear with Large Tyres and 1280kg Maximum Landing Mass), E4-A (in accordance with DAI MSB E4-002), Silencer: Diamond Aircraft D44-7806-20- 00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310	1,280	72.1	82.5	-
C9912	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	E4-A (in accordance with DAI MSB E4-002), Silencer : Diamond Aircraft D44-7806-10-00_()	1,280	74.5	82.5	-
C10353	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	E4-A (in accordance with DAI MSB E4-002), Silencer : Diamond Aircraft D44-7806-20- 00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310	1,280	71.5	82.5	-
C12618	MT-Propeller Entwicklung GmbH	MTV-6-R/190-69	OÄM 40-394 (RAAC ON during T/O and Landing), E4-A (in accordance with AE MSB E4-002), Silencer: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310	1,280	71.6	82.5	-

<sup>&</sup>lt;sup>1</sup> See Note 1.



TC.CERT.00080-001 (c) European Aviation Safety Agency, 2014. All rights reserved. ISO9001 Certified. Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet TCDSN EASA.A.022 Page 10 of 11 Issue: 13 Date: 05 April 2016

## **TCDSN EASA.A.022 Notes**

1. Items so marked shall be included on EASA Form 45.



TCDSN EASA.A.022 Page 11 of 11 Issue: 13 Date: 05 April 2016

## **Change Record**

Issue	Date	Changes
Issue 1		Initial Issue
Issue 2	30 April 2007	Added records C3676 - C3678
Issue 3	18 October 2007	Added record C5063
Issue 4	22 January 2008	First page revised
Issue 5	08 April 2010	Records C5112 and C5521 added
Issue 6	18 May 2010	Record C9912 added.
Issue 7	29 June 2010	Record C3676 revised.
Issue 8	27 July 2010	Records C5512 and C9912 revised.
Issue 9	23 September 2010	Record C9912 revised.
Issue 10	28 March 2011	Records C10353, C10356 and C10357 added
Issue 11	12 November 2014	Added Records C12122 and C12123.
Issue 12	26 January 2014	Records C12122 and C12123 amended
Issue 13	05 April 2016	Revised