TYPE-CERTIFICATE DATA SHEET

No. IM.P.193

for Propeller
(X)3A37C(34--) series propellers

Type Certificate Holder
McCauley Propeller Systems

One Cessna Boulevard
PO Box 7704
Wichita, KS 277-7704
USA

For Model: D3A37C3401

Intentionally left blank

TABLE OF CONTENTS

I. General

1. Type / Models

(X)3A37C(34--) / D3A37C3401

2. Type Certificate Holder

One Cessna Boulevard, PO Box 7704, Wichita, KS 277-7704, USA

3. Manufacturer

McCauley Propeller Systems

4. Date of Application

D3A37C3401: 30 January 2015

5. EASA Type Certification Date

D3A37C3401: 27 April 2016

II. Certification Basis

1. State of Design Authority Certification Basis

Refer to FAA TCDS no. P00014WI.

2. Reference Date for determining the applicable airworthiness requirements

D3A37C3401: 03 February 2009.

3. EASA Certification Basis

3.1. Airworthiness Standards

D3A37C3401:
CS-P Amendment 1 dated 16 November 2006 as issued by EASA Decision No 2006/09/R except Subpart D (see note 10).

3.2. Special Conditions (SC)

None.

3.3. Equivalent Safety Findings (ESF)

None.

3.4. Deviations

None.

III. Technical Characteristics

1. Type Design Definition

The propeller type design is defined by a propeller assembly drawing including a parts list, hub assembly drawing and blade drawing (or later approved revisions).

D3A37C3401: Propeller Assembly Drawing E-7898, rev I, dated 26.02.2015
Hub Assembly Drawing D-8047 dated 06.09.2012
Blade Drawing C80MNX dated 15.10.2013

2. Description

The propeller is a three-blade model. The constant speed propeller has no feathering or reversing capability.
A hydraulic cylinder attached to the front of the hub provides the force necessary to maintain and change blade pitch. The pitch change mechanism is contained entirely within the hub. The propeller design is covered by a Propeller Assembly Drawing and associated Parts List, Hub Assembly Drawing and Blade Drawing (see Notes 3).
The hub is milled out of aluminium alloy. The blade material is composite laminate.
Optional equipment includes spinner and ice protection.

3. Equipment

Spinner: See Note 7
Governor: See Note 3
Ice Protection: See Note 7

4. Dimensions

Diameter Limits: 200,7 cm to 193,0 cm (see Note 2).

5. Weight

Approx. max. weight complete: 21,3 kg (max. dia.).

6. Hub / Blade Combinations

D3A37C3401 / C80MNF-(X) (see Note 2).

7. Control System

McCauley Hydromechanical Governor (see Note 3).

8. Adaptation to Engine

Denotes S.A.E. ARP 502 Type 1 Flange – 10,16 cm B.C. (see Note 1).

9. Direction of Rotation

Right-Hand (see Note 5).

IV. Operating Limitations

Blades (see Note 2)	Maximum Continuous kW	Maximum Continuous RPM (min^{-1})	Take Off kW	Take Off RPM (min^{-1})	Diameter Limits (cm) (see Note 2)	Approx. Max Wt. Complete (kg) (Max. Dia.)	Blade Construction
			Hub Model D3A37C3401				
C80MNF-1 to C80MNF-4	261,0	2700	261,0	2700	200,7 to 193,0 (-1 to -4)	21,3	Composite Laminate

1. Approved Installations

See Note 10.

2. Maximum Take Off Power and Speed

261,0 kW at 2700 min^{-1}.

3. Maximum Continuous Power and Speed

261,0 kW at 2700 min^{-1}.

3. Propeller Pitch Angle

Component Model Reference: C290D(X)/T(X) (see Note 3).

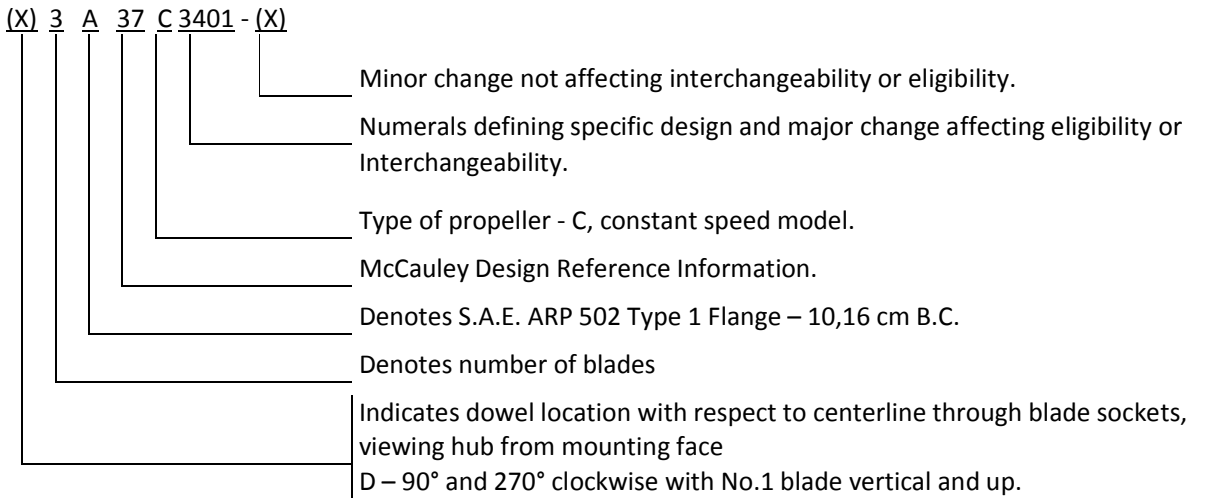
V. Operating and Service Instructions

McCauley Owner/Operator Manual incl. Airworthiness Limitations	MPC27 (*)
McCauley Service Manual	MPC3400 (*)
McCauley Propeller Blade Overhaul Manual	BOM200 (*)
McCauley Standard Practices Manual	SPM100 (*)
Service Bulletins	

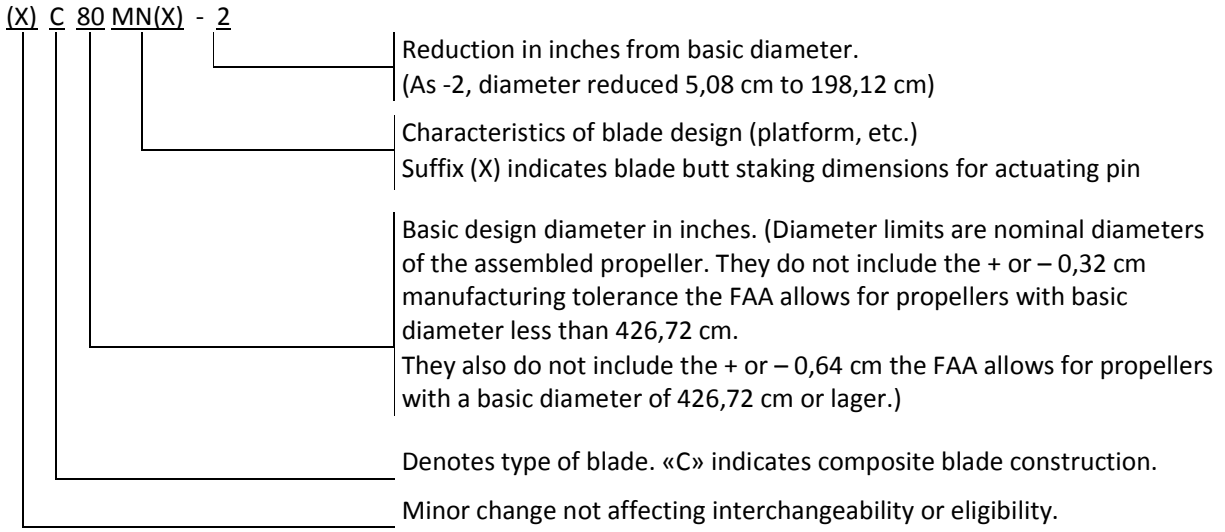
(*): or later approved revision

VI. Notes

1. Hub Model Designation:



2. Blade Model Designation:



3. Substantiated pitch control components not included in propeller type design:

Hub Model	Blade Model	Component Description	Component Model Reference	Estimated Weight (kg)
D3A37C3401	C80MNF-(X)	McCauley Hydromechanical Governor	C290D(X)/T(X)	1,27

4. Feathering and Reversing: Not applicable.

5. Left-Hand Models: Not applicable.

6. Interchangeable Blades: Not applicable.

7. Accessories: Substantiated accessories not included in propeller type design:

Propeller Deice

Hub Model	Blade Model	Component Description	Part Number	Installation Drawing (reference)
D3A37C3401	C80MNF-(X)	McCauley Deicer	B-40746-30	E-7898
D3A37C3401	C80MNF-(X)	McCauley Anti-ice feed shoe	C-40323-81	E-7898

Propeller Spinner

Hub Model	Blade Model	Component Description	Part Number
D3A37C3401	C80MNF-(X)	McCauley Spinner Assembly	E-8049

8. Shank Fairings: Not applicable.

9. Special Limits: Not applicable (propeller - engine combinations).

10. This propeller has been certificated in accordance with CS-P subpart A,B and C. Compliance with the requirement of subpart D, which is specific to each aircraft installation has not yet been demonstrated.

11. Special Limits: Airworthiness limitations, if any, are specified in McCauley Manual MPC-27( ).

12. Special Notes: Not applicable.

13. The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable Hartzell Manuals , MPC-27( ) chapter 5 "Airworthiness Limitations".

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

None.

II. Type Certificate Holder Record

N/A.

III. Change Record

Issue	Date	Changes	TC issue
Issue 01	27 April 2016	Initial Issue	27 April 2016

-END-