



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

TYPE CERTIFICATE DATA SHEET Nº EH-9408

Type Certificate Holder:

McCAULEY PROPELLER SYSTEMS

7751 east Pawnee
Wichita Kansa 67207
USA

EH-9408-04

Sheet 01

McCAULEY

4HFR34C (7..)

4HFR34C (6..)

July 2008

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 9408, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

TYPE	Constant speed, full feathering and reversing; hydraulic. (See Note 4)
ENGINE SHAFT	Special flange (See Note 1)
HUB MATERIAL	Aluminum Alloy
BLADE MATERIAL	Aluminum Alloy
NUMBER OF BLADES	Four

HUB ELIGIBLE

4HFR34C766, 4HFR34C762, 4HFR34C768, 4HFR34C775,
4HFR34C652, 4HFR34C663, **4HFR34C653**.

Blade Eligible (See Note 2)	Max. Continuous Power hp (rpm)	Take off power hp (rpm)	Diameter Limits (See Note 2) m (in)	Approx. Max. Weight Compl. (For Ref. Only) kg (lb)
<u>Hub Model 4HFR34C766</u>				
94LN[X]-2 to 94LN[X]-10	700 (2 200)	700 (2 200)	2.34 (92) to 2.13 (84)	61.23 (135)
<u>Hub Model 4HFR34C762</u>				
94LM[X]-4 TO -10	700 (2 200)	700 (2 200)	2.29 (90) to 2.13 (84)	60.33 (133)
<u>Hub Model 4HFR34C768</u>				
94LM[X]-0 TO -10	700 (2 200)	700 (2 200)	2.39 (94) to 2.13 (84)	61.23 (135)
<u>Hub Model 4HFR34C775</u>				
96MG[X]-0 TO -8	750 (2 200)	750 (2 200)	2.44 (96) to 2.24 (88)	63.50 (135)
<u>Hub Model 4HFR34C652</u>				
L106L[X]-0 TO -6	1 250 (1 591)	1 250 (1 591)	2.69 (106) to 2.54 (100)	76.2 (168)
<u>Hub Model 4HFR34C663</u>				
L106K[X]-0 TO -6	1 250 (1 591)	1 250 (1 591)	2.69 (106) to 2.54 (100)	76.2 (168)
<u>Hub Model 4HFR34C653</u>				
L106F[X]-0 TO -6	1 250 (1 591)	1 250 (1 591)	2.69 (106) to 2.54 (100)	76.2 (168)

CERTIFICATION BASIS4HFR34C766 and 4HFR34C768

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR 35, including Amendments 35-1 thru 35-6, thereto.

4HFR34C762

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR 35, including Amendments 35-1 thru 35-5, thereto.

4HFR34C775

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses FAR 35 effective 18 August 1990 with Amendments 1 through 6.

4HFR34C652 and 4HFR34C653

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses FAR 35 effective 18 August 1990 with Amendments 1 through 5.

4HFR34C663L106KA

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses 14 CFR Part 35 effective 18 August 1990 with Amendments 1 through 6.

TYPE CERTIFICATION	<u>Hub Model</u>	<u>Application</u>	<u>Issued TC</u>
	4HFR34C766	30 November 1993	28 June 1994
	4HFR34C762	24 March 2005	06 May 2005
	4HFR34C768	24 March 2005	06 May 2005
	4HFR34C775	03 April 2007	10 August 2007
	4HFR34C652	10 September 2007	05 October 2007
	4HFR34C663	10 September 2007	05 October 2007
	4HFR34C653	17 July 2008	28 July 2008

IMPORT REQUIREMENTS Each propeller imported separately and/or spare parts must be accompanied by an Airworthiness Certificate for Export and/or an Airworthiness Approval Tag, respectively, issued by FAA, attesting that the particular propeller and/or parts were submitted to the governmental quality control before delivery and are in conformity with the ANAC approved type design.

NOTES:

NOTE 1 Hub model Designation - X 4 H F R 34 C 752 - [X][X][X] , where:

[X] = Indicates dowel location with respect to centerline of No. 1 blade socket, viewing hub from flange mounting face.

Blank – 0, 90, 180 and 270 degrees clockwise.

4 = Number of blades.

H = H denotes special flange - 4-1/4" bolt circle with eight 9/16" studs and two or four 1/2" dowels.

J denotes special flange - 5-1/8" bolt circle with twelve 9/16" studs and two 5/8" dowels.

F = Type of propeller - F, full-feathering.

R = When present, indicates reverse pitch capability.

34 = McCauley blade shank size.

C = Type of propeller - C, constant speed.

752 = Numerals defining specific design and major change affecting eligibility or interchangeability of parts.

- [X] [X] [X] = Letters denoting changes that may affect eligibility or interchangeability.

NOTE 2 Blade Model Designation – [X] -[X] 106 LA -0 , where:

[X] = Letter designating minor change not affecting eligibility or interchangeability.

-[X] = Letter designating direction of rotation; no letter (blank) indicates clockwise (viewed from downstream), L indicates counter-clockwise.

106 = Blade design diameter in inches.

LA = Characteristics of blade design (planform, etc.). Suffix [X] indicates blade butt staking dimensions for actuating pin attachment.

-0 = Change in diameter from basic, + or -, in inches.

NOTE 3 Not applicable.

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- NOTE 4** Feathering. All propeller models are approved for feathering and unfeathering capability when installed with appropriate feather/unfeathering controls.
- Reversing. All propeller models are approved for installation with appropriate reversing controls.
- NOTE 5** Left-Hand Models.
- The left hand version of an approved model propeller is approved at the same rating and diameter limitations as listed for the right hand model.
- NOTE 6** Not applicable.
- NOTE 7** Accessories.
- (a) Propeller Anti-icing.
- (1) Model 4HFR34C766/94LN[X] is eligible with McCauley deicer, P/N B-40183 or B-40245 series, installed per McCauley Specification MC-2611 and McCauley drawing E-6720.
- (2) Model 4HFR34C762/94LM[X] is eligible with McCauley deicer, P/N B-40183 or B-40245 series, installed per McCauley Specification MC-2611 and drawing E-6120.
- (3) Model 4HFR34C768/94LM[X] is eligible with McCauley deicer, P/N B-40183 or B-40245 series, installed per McCauley Specification MC-2611 and McCauley drawing E-6790.
- (4) Model 4HFR34C652/L106L[X] is eligible with McCauley deicers, P/N B-40183 or B-40245 series, installed per McCauley Specification MC-2611 and drawing E-5322.
- (5) Model 4HFR34C663/L106K[X] is eligible with McCauley deicers, P/N B-40183 or B-40245 series, installed per McCauley Specification MC-2611 and drawing E-6401.
- (6) Model 4HFR34C653/L106F[X] is eligible with McCauley deicers, P/N B-40183 or B-40245 series, installed per McCauley Specification MC-2611 and drawing E-6401.
- (b) Propeller Spinner
- (1) Model 4HFR34C766/94LN[X] with spinner, reference McCauley drawing E-6720.
- (2) Model 4HFR34C762/94LM[X] with spinner, reference McCauley drawing E-5550.
- (3) Model 4HFR34C768/94LM[X] with spinner, reference McCauley drawing E-6790.
- (4) Model 4HFR34C775/96MG[X] with spinner, reference McCauley drawing E-6790.
- (5) Model 4HFR34C652/L106L[X] with spinner, reference McCauley drawing E-5322.
- (6) Model 4HFR34C663/L106K[X] with spinner, reference McCauley drawing E-6401.
- (7) Model 4HFR34C563/L106F[X] with spinner, reference McCauley drawing E-6401.
- NOTE 8** Not applicable.
- NOTE 9** Special Limits.
- Please reference the airworthiness limitations section of the appropriate Service and Operator's manuals. Propeller model 4HFR34C663/L106K[X] contains life limited parts.
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NOTE 10 Special Notes.

Aircraft installation must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements.


for **CLÁUDIO PASSOS SIMÃO**
Gerente Geral, Certificação de Produtos Aeronáuticos
(Manager, Aeronautical Products Certification)
