

**COMANDO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL**

TYPE CERTIFICATE DATA SHEET N° EH-2005T08

Type Certificate Holder:

HAMILTON SUNDSTRAND CORPORATION
One Hamilton Road
Windsor Locks, CT 06096-1010
USA

EH-2005T08

Sheet 01

**HAMILTON
SUNDSTRAND**

247F-1

247F-1E

April 2005

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 2005T08, 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; hydraulic (see Notes 3 & 4).

ENGINE FLANGE 171.45 mm (6.75 in) bolt circle.

HUB MATERIAL Steel.

BLADE MATERIAL Kevlar Shell / Graphite spar

NUMBER OF BLADES 4 (four)

HUB ELIGIBLE 247F

Blade Eligible	Max. Continuous Power	Takeoff power	Diameter Limits	Approx. Max. Weight Compl.
	hp (rpm)	hp (rpm)	m (ft)	kg (lb)
R810641-1,-2 or -3	2 500 (1 200)	2 750 (1 200)	3.96 (13)	152.77 (336.8)
R817370-1	2 500 (1 200)	2 750 (1 200)	3.96 (13)	156.5 (345)
R817370R1	2 500 (1 200)	2 750 (1 200)	3.96 (13)	156.5 (345)

CERTIFICATION BASIS Brazilian Type Certificate No. 2005T08 based on the RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR 35 through Amendment 6 dated 18 August 1989 and special conditions SA-92-02-NE (Docket No. 92-ANE-46), dated 8 January 1993. For the 247F-1E, additional Special Condition SC-95-01-NE (Docket No. 94-ANE-50) dated 28 November 1995.

TYPE CERTIFICATION	<u>Model</u>	<u>Application</u>	<u>Issued TC</u>
	247F-1 and 247F-1E	31 March 2005	25 April 2005

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 CTA approved type design.

NOTES:

NOTE 1 Hub model Designation 2 4 7 F 1, where:

2 = Major model type.

4 = Number of blades.

7 = Blade Shank size.

F = Denotes flange mounting.

1 = Indicates a specific model designation which defines a complete propeller assembly, including spinner.

NOTE 2 Blade Model Designation:
Propeller blades are identified by part number only, which does not constitute a model designation.

NOTE 3 Pitch Control: Propeller control is specified on the approved model parts list.

NOTE 4 (a) Feathering: Full feathering with the approved propeller control is specified on approved model parts list.
(b) Reversing: Full reversing with the approved propeller control is specified on approved model parts list.

NOTE 5 Left-Hand Models: Not applicable.

- NOTE 6** Interchangeable Blades: R817370-1 and R817370R1 blades are interchangeable.
- NOTE 7** Accessories:
(a) Propeller deicing: The electrical deicing system is specified on approved model parts list and installed in accordance with the propeller manufacture's instructions.
(b) Spinners: The spinner is specified on approved model parts list.
- NOTE 8** Shank Fairings: Not Applicable.
- NOTE 9** Special Limits:
247F-1: Airworthiness limitations as specified in System Maintenance Manual P5202, Propeller Component Maintenance Manual 61-13-11 and Propeller Control Component Maintenance Manual 61-21-15.
247F-1E: Airworthiness limitations as specified in System Maintenance Manual P5204, Propeller Component Maintenance Manual 61-13-11, Propeller Servo Valve Component Maintenance Manual 61-26-01 and Electronic Propeller Control Component Maintenance Manual 61-25-02.
- NOTE 10** Life-Limited Parts: See note 9.
- NOTE 11** Blades:
The R810640-1, -2, -3, R817370-1, and R1 blades are approved for use with the model propeller in sets of four.
- NOTE 12** Special Notes:
Aircraft installation must be approved as part of the aircraft type certification and demonstrate compliance with the applicable airworthiness requirements.

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