MINISTÉRIO DA AERONÁUTICA DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO CENTRO TÉCNICO AEROESPACIAL

TYPE CERTIFICATE DATA SHEET № EH-9809

Type Certificate Holder:

SENSENICH PROPELLER MANUFACTURING CO., INC.

14 Citation Lane Lititz, Pennsylvania PA 17543 **USA** EH-9809

Sheet 01

SENSENICH

76EM

October 98

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 9809, 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 Fixed-Pitch Metal

ENGINE SHAFT See Note 1

HUB MATERIAL Aluminum Alloy

BLADE MATERIAL Aluminum Alloy

NUMBER OF BLADES Two

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HUB ELIGIBLE	76EM

Basic Model (See Note 1)	Max.Continuous & Takeoff Power	Standard Pitch	Diameter Limits	Approx. Max. Weight Compl.
	hp rpm	in	m in	Kg lb
76EM8	180 2700	68 - 52	1.93 76	15.65 34.5

CERTIFICATION BASIS CAR 14 as amended to December 15, 1956

TYPE CERTIFICATIONApplication
Issued TC
76EM8
07 May 1998
26 Oct. 1998

PRODUCTION BASIS Production Certificate No. 1NE

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 Model Designation: M 76 E M8 S5 0 50

M	Designates metal propeller. Not included on propellers with
	Serial No. 5805 & up, which are otherwise the same.
76	Basic diameter in inches.
E	Designates blade design.
M8	Designates hub configuration.
	"M8" or "MM" - for installation on SAE No. 2 (Ref. AS 127)) flanged
	shaft with 1/2" diameter attaching bolts and 3/4" diameter drive
	bushings.
S5	Designates a 6/4 or 1 1/2 inch spacer thickness. "S" when used with "MM"
	hub configuration shown below, "MM", is equivalent to S5 spacer.
0	Designates cut-off in inches from basic diameter.
50	Pitch in inches at the .75 Radius station. Designates design change

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NOTE 2 Hub Drilling and Dimensions

Hub Drilling

No. Holes: 6
Diameter Holes: 33/64"
Diameter Bolt Circle: 4-3/4"

Hub Dimensions

Hub Diameter 6" Dimensions Thick.: 3-9/16"

NOTE 3 Installation:

These models are for installation on flanged propeller shaft ends (See Note 1). Installation is to be made with special steel bolts which are furnished or specified by the propeller manufacturer in accordance with the associated propeller assembly drawing. See Note 4 for spacer designations and Note 5 for approved spacer lengths.

(a) Propeller Model 76EM8 is installed on SAE No. 2 shaft with 1/2 inch diameter attaching bolts and 3/4 inch diameter drive bushings.

NOTE 4 Spacers

Sensenich spacer models are identified by flange code (See Note 1) and spacer thickness designation based an 1/4 inch multiples. See Note 5 for approved spacer lengths.

NOTE 5 Special Limits

Table of Propeller-Engine Combinations
Approved Vibrationwise for Use on Normal Category Single-Engine Tractor Aircraft

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible since this figure includes the diameter reduction allowable for repair purposes.

Propeller Model	Engine Model	Max. Dia. (Inches)	Min. Dia. (Inches)	Placards
76EM8, Spacers 0 to 4.0 inches, incl	Lycoming O-360 Series with Hollow Crankshafts (Excludes engines with suffixes having a digit "4" or higher in the second position.) 180 hp and 2700 rpm	76	76	Avoid continuous operation between 2150 and 2350 rpm
76EM8, Spacers 0 to 4.0 inches, incl	Lycoming O-360 Series with Solid Crankshafts (Engines with suffixes having a digit "4" or higher in the second position.) 180 hp and 2700 rpm	76	76	None

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NOTE 6 Special Notes.

The work "eligible" as used herein does not signify approval. For approval, compliance with the applicable aircraft airworthiness requirements is necessary.

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Maj.-Brig.-do-Ar REGINALDO DOS SANTOS

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