

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

TYPE CERTIFICATE DATA SHEET Nº EH-9110-02

Type Certificate Holder:

McCAULEY PROPELLER SYSTEMS

3535 McCauley Drive
Vandalia, Ohio - OH 45377

USA

EH-9110-02

Sheet 01

McCAULEY

B3D32C(4--)

B3D36C(4--)

December 98

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 9110, 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 Note 3)
ENGINE SHAFT	S.A.E. No. 2 flange modified (six 1/2" mounting bolts)
HUB MATERIAL	Aluminum Alloy
BLADE MATERIAL	Aluminum Alloy
NUMBER OF BLADES	Three

HUB ELIGIBLE

B3D32C414, B3D32C417, B3D36C431 and B3D36C432

Blade Eligible (See Note 2)	Max. Continuous Power		Take off power		Diameter Limits (See Note 2)		Approx. Max. Weight Compl.	
	hp	rpm	hp	rpm	m	in	Kg	lb
<u>Hub Model B3D32C414</u>								
82ND[X]-2 to 82ND[X]-10	260	2 700	260	2 700	2.03	80" to 1.83 72" (-2 to -10)	33.11	73.0
<u>Hub Model B3D32C417</u>								
82NR[X]-2 to 82NR[X]-9	270	2 575	270	2 575	2.03	80" to 1.85 73" (-2 to -9)	30.16	66.5
<u>Hub Model B3D36C431</u>								
80VS[X]-0 to 80VS[X]-8	325	2 700	325	2 850	2.03	80" to 1.83 72" (-0 to -8)	34.50	76.0
<u>Hub Model B3D36C432</u>								
80VS[X]-0 to 80VS[X]-8	325	2700	325	2850	2.03	80" to 1.83 72" (-0 to -8)	34.50	76.0

CERTIFICATION BASIS

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAA - FAR Part 35 effective:

Hub Models B3D32C414 and B3D32C417 FAR Part 35 including Amendments 35-1 through 35-5 (October 14, 1980) thereto

Hub Models B3D36C431 and B3D36C432 FAR Part 35 including Amendments 35-1 through 35-6 (August 18, 1990) thereto.

TYPE CERTIFICATION

	Application	Issued TC
Hub Model B3D32C414	18 October 1996	02 December 1998
Hub Model B3D32C417	03 March 1991	10 December 1991
Hub Model B3D36C431	24 July 1998	24 September 1998
Hub Model B3D36C432	15 August 1997	02 December 1998

PRODUCTION BASIS

Production Certificate No. 3

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 - B 3 D 32 C 417 -A, where:

- B Indicates angular location of small diameter indexing holes for mounting bolts, with respect to blade centerline, when viewing hub from flange mounting face.
 Blank - 0° degrees and 180° degrees clockwise
 B - 150° degrees and 330° degrees clockwise
 C - 30° degrees and 210° degrees clockwise
- 3 Denotes number of blades.
- D Denotes SAE No. 2 flange modified (6-1/2" mounting bolts).
- 32 McCauley blade shank size.
- C C denotes constant speed.
- 417 Change affecting eligibility.
- A Minor change not affecting interchangeability or eligibility.

NOTE 2 Blade Model Designation –[S] -80 VS[X] -2, where:

[S] Minor change not affecting interchangeability or eligibility.

-80 Basic diameter in inches.

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

-2 Reduction in inches from basic diameter
(as -2 diameter reduced 2 inches to 78 inches)

NOTE 3 Pitch Control. With the following governors:

(1) McCauley model C290DX/TX Weight 2.8 pounds.

(2) Edo Aire model 34-828-XXX-XX Weight 2.5 pounds.

(3) McCauley Model DC290DX/TX Weight 2.8 pounds.

NOTE 4 Not applicable

NOTE 5 Not applicable

NOTE 6 Not applicable

NOTE 7 Accessories.

(1) Model B3D32C414/82ND[X] with McCauley spinner, ref. drawing D-6240

(2) Model B3D32C417/82NR[X] with McCauley spinner, ref. drawings D-6204 or D-6204-1.

(3) Model B3D36C431/80VS[X] with McCauley spinner, ref. drawing E-7296.

NOTE 8 Not applicable

NOTE 9 Not applicable

NOTE 10 Special Notes. Aircraft installation must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements.

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