UK CIVIL AVIATION AUTHORITY
PROPELLER TYPE CERTIFICATE DATA SHEET NO. 115

Issue 2
November 1997

1. CERTIFICATION

Propellers of types detailed below are approved for use on civil aircraft classified in the Transport Category (Passenger) listed in item 4 of this data sheet when they are installed, operated and maintained in accordance with the approved manufacturer's manual and other approved instructions.

2. CONSTRUCTOR

Dowty Aerospace Propellers
Cheltenham Road
GLOUCESTER
GL2 9QH

3.. TYPE NUMBER

(c) R334/4 - 82 - F/13

4. APPROVED INSTALLATION

4.1 Installations

	Propeller Model	Aircraft Engine
(c)R334/4 - 82 F/13	CASA 212 Series 200 Maximum Take-off weight 8100Kg	Allied Signal TPE 331-10R-502 & TPE 331-10R-512 Take-off Rating 925 SHP at 1591 propeller rpm
	CASA 212 Series 300 Maximum Take-off Weight 8100 Kg	Allied Signal TPE331-10R-513 Take-off Rating 925 SHP at 1591 propeller rpm
	CASA 212 Series 400 Maximum Take-off Weight 8100 Kg	Allied Signal TPE331-12JR-701C Take-off rating 925 SHP at 1591 propeller rpm

5. CERTIFICATION BASIS

Propeller approval for 900 SHP at 7450 kg maximum take-off weight was originally granted by CAA letter Ref. 9/80/PR7/6/CASA212 dated 8 July 1982. This was extended to include installation of Garrett engines Type TPE 331-10-501C, Maximum take off rating 925 SHP by supplementary approval letter Ref 9/80/PR7/6-7, dated 18 November 1986. The basis for certification was BCAR Section A Issue 24 and Section C Issue 13.

6. PROPELLER PARTICULARS

6.1 Build Standards

Specified in DIS No. 66070900C Section E (or latest approved issue)

General Arrangement Drawing No.	660709251
Installation Drawing No.	660709020-1
Blade Assembly Drawing No.	660709278
Design Specification No.	81.DS.0355

6.2 Description

Variable pitch, constant speeding, feathering, reversing, using hydraulic control and counter weights. Beta control provides manual pitch selection for aircraft braking and ground manoeuvring

6.3 Number and Description of Blades

Four blades of solid duralumin construction with ARA-D aerofoil sections.

6.4 Diameter

110 inches (2.79 metres)

6.5 Rotation

Rotation is counter-clockwise viewed from the rear of the propeller (left hand tractor).

6.6 Engine Shaft Mounting

AS880 flange

6.7 Weight

Complete with spinner - 191 lb approximate (reference only)

6.8 Equipment

Spinner	Dowty Type (C) SB10/4/1
Bulkhead	Dowty Type 664005201
De-icing Equipment	Dowty De-icing Equipment List:- 660.000902

6.9 The following equipment is associated with the propeller type approval but is not supplied by Dowty Aerospace Propellers

Propeller Pitch Control Unit	Woodward Type 210749
Feathering Pump	Weldon Tool Co. Type C4033-E

7. MANUALS

Overhaul Manual	61-10-27
Propeller Maintenance Manual	Publication No. 1019
Spinner Overhaul Manual	61-10-22

8. NOTES

8.1 The approval does not show that compliance with the aircraft de-icing requirements has been achieved.

8.2 The engine minimum ground idle rpm must not be less than 65% of the rated take-off rpm.

8.3 The approval does not include the aircraft/engine/propeller control system as installed in the aircraft