UK CIVIL AVIATION AUTHORITY
PROPELLER TYPE CERTIFICATE DATA SHEET NO. 109

Issue 3
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1. CERTIFICATION

Propellers of types detailed below are approved for use on civil aircraft classfied in the Transport Category (Passenger) listed in Itel 4 of this data sheet when they are installed, operated and maintained in accordance with the approved manufacturers manuals and other approved instructions.

2. CONSTRUCTOR

Dowty Aerospace Propellers
Cheltenham Road
Gloucester
United Kingdom

3. TYPE NUMBER

(c) R.375/4-123-F/21

4. APPROVED INSTALLATIONS

4.1 Installations

Propeller Model	Aircraft	Engines
(c) R.375/4-123-F/.21	Saab SF340A and Saab 340B Max.T.O.Weight 29000 lb	General Electric CT7-5A2 Take-off rating 1735 SHP at 1384 propeller rpm General Electric CT7-9B Take-off rating 1750 SHP and with APR 1870 SHP at 1384 propeller rpm General Electric CT7-5A3 Take-off rating 1665 SHP and with APR 1785 SHP at 1384 propeller rpm

5. CERTIFICATION BASIS

BCAR Section A Issue 24 Chapter A3-2 (Grey Paper No A44 3 June 1980). Section C Issue 12 Chapter C1-1, C1-2 and sub-section C5, together with the installation requirements of JAR25 Paragraphs 33, 901(c) 905, 907, 933(c), 937 and 1337, also Special Requirements detailed in CAA letter ref. 9/216/11 dated 5 June 1981.

6. PROPELLER PARTICULARS

6.1 Build Standard

Specified in DI No 66071000c Column H (or latest approved issue).

General arrangement Drawing No	660710119
Installation Drawing No.	660710019
Blade assembly Drawing No.	660714214-6
Design Specification	84DS0428

6.2 Description

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

6.3 Number and Description of Blades

Four blades, composite glass and carbon reinforced plastic construction, polyurethane coated for erosion protection.

6.4 Diameter

132 inches (3.5 metres)

6.5 Rotation

Rotation is clockwise viewed from the rear of the propeller (right hand tractor).

6.6 Engine Shaft Mounting

Special flange with 12 bolts and two dowels, all at 5.125 inches PCD.

6.7 Weight

Complete with spinner - 216 lb approximately (for reference only).

6.8 Equipment

Spinner	Dowty Type (c) SB 25/4/1
Propeller Pitch Control Unit	Woodward Type 663006008 663006009 663006010
Overspeed Governor	Woodward Type 661001001 or 661001002
Feathering Pump	Dowty (c) RFP/34
Blade De-icing	Dowty 660000929 (see note 8.1)
Synchrophasing Equipment Type	Dowty 660713241

7. MANUALS

Propellers	61-10-39
Spinner	61-10-40
Feathering Pump	61-20-26
Woodward PCU	61-20-27
Woodward OSG	61-20-28

8. NOTES

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