

**UK CIVIL AVIATION AUTHORITY  
PROPELLER TYPE CERTIFICATE DATA SHEET NO. 103**

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Issue 8  
March 1992

**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 manufacturers manuals and other approved instructions.

**2      CONSTRUCTOR**

Dowty Aerospace Propellers  
Cheltenham Road  
Gloucester  
United Kingdom

**3      TYPE NUMBER**

- (c)    R.354/4-123-F/13
- (c)    R.354/4-123-F/20

**4      APPROVED INSTALLATIONS**

4.1    Installations

Propeller Model	Aircraft	Engine
(c)R.354/4-123-F/13 (c)R.354/4-123-F/20	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

	Propeller Model	Aircraft	Engine
			General Electric CT7-5A3 Take-off rating 1665 SHP & 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 Chapters C1-1, C1-2 and sub-section C5, together with the installation requirements of JAR 25 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	<u>Build Standard</u>		
	Specified in DIS No 66071000C Column D and G (or latest approved issue)		
	General arrangement Drawing No	660710113 & 660710118	
	Installation Drawing No	660710013 & 660710018	
	Blade assembly Drawing No	660712266-6 & 660713287-6	
	Design Specification	84DS0428	
6.2	<u>Description</u>		
	Variable pitch, constant speeding, feathering, using hydraulic control and counter weights. Beta control provides manual pitch selection for aircraft braking and ground manoeuvring.		
6.3	<u>Number and Description of Blades</u>		
	Four blades, composite glass and carbon reinforced plastic construction, polyurethane coated for erosion protection.		
6.4	<u>Diameter</u>		
	132 inches (3.35 metres)		
6.5	<u>Rotation</u>		
	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 - 215 lb approximately (for reference only).

6.8    Equipment

Spinner	-	Dowty Type (c) SB 14/4/1
Propeller pitch control unit	-	Woodward Type 663006008 663006009 or 663006010
Overspeed governor	-	Woodward Type 661001001 or 661001002
Feathering pump	-	Dowty (c) RFP/34
Blade De-icing	-	Dowty 660000926* (see note 8.1) 660000927
Synchrophasing Equipment Type	-	Dowty 660713241

**7    MANUALS**

Propellers	61-10-36
Spinner	61-10-31
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.

\*        660000926 - R354/4-123-F/13  
          660000927 - R354/4-123-F/20