

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

P57GL
Revision 12
McCAULEY
3AF32C(5--)
3AF34C(5--)
3AF36C(5--)
3AF37C(5--)
B3DF36C(5--)
February 1, 2013

TYPE CERTIFICATE DATA SHEET NO. P57GL

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. P57GL and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with the pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder	McCauley Propeller Systems 5800 East Pawnee Wichita, KS 67218
Type	Constant speed; hydraulic (see Notes 3 and 4)
Engine Shaft	Special flange 4.00 inch B.C.
Hub Material	Aluminum Alloy
Blade Material	Aluminum Alloy
No. of Blades	Three
Hub Models	3AF34C502, 3AF34C503, 3AF32C504, 3AF32C505, 3AF32C506, 3AF32C507, 3AF32C508, 3AF32C509, 3AF37C510, 3AF32C511, 3AF32C512, 3AF36C514, 3AF32C515, 3AF37C516, 3AF32C521, 3AF32C522, 3AF32C523, 3AF32C524, 3AF36C525, B3DF36C526, B3DF36C527, and 3AF32C528.

Blades (See Note 2)	Maximum Continuous		Take-Off		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Ref. Only)
	HP	RPM	HP	RPM		
	<u>Hub Model 3AF34C502</u>					
80H[X]-0 to 80H[X]-8	215	2575	215	2575	80" - 72" (-0 to -8)	76.0 Lbs.
	<u>Hub Model 3AF34C503</u>					
L80H[X]-0 to L80H[X]-8	215	2575	215	2575	80" - 72" (-0 to -8)	76.0 Lbs.
	<u>Hub Models 3AF32C504, 3AF32C505, 3AF32C511, 3AF32C512, and 3AF32C528</u>					
82NE[X]-2 to 82NE[X]-8	325	2700	325	2700	80" - 74" (-2 to -8)	70.0 Lbs. 75.8 Lbs.* 73.0 Lbs.**

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Blades (See Note 2)	Maximum Continuous		Take-Off		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Ref. Only)
	HP	RPM	HP	RPM		
<u>Hub Model 3AF32C506</u>						
82NE[X]-0 to 82NE[X]-10	250	2400	250	2400	82" - 72" (-0 to -10)	71.5 Lbs.
<u>Hub Model 3AF32C507</u>						
L82NE[X]-0 to L82NE[X]-10	250	2400	250	2400	82" - 72" (-0 to -10)	71.5 Lbs.
<u>Hub Model 3AF32C508</u>						
82NF[X]-2 to 82NF[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF32C509</u>						
L82NF[X]-2 to L82NF[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF37C510</u>						
90LF[X]-0 to 90LF[X]-10	375	2400	375	2400	90" - 80" (-0 to -10)	86.9 Lbs.
<u>Hub Model 3AF36C514 and 3AF36C525</u>						
80VMF[X]-0 to 80VMF[X]-6	350	2700	350	2700	80" - 74" (-0 to -6)	70.0 Lbs. 75.8 Lbs.***
<u>Hub Model 3AF32C515</u>						
82NL[X]-2 to 82NL[X]-8	350	2700	350	2700	80" - 74" (-2 to -8)	74.0 Lbs.
<u>Hub Model 3AF37C516</u>						
90LF[X]-0 to 90LF[X]-6	375	2275	375	2275	90" - 84" (-0 to -6)	86.9 Lbs.
<u>Hub Model 3AF32C521</u>						
82NL[X]-4 to 82NL[X]-10	350	2700	350	2700	78" - 72" (-4 to -10)	80.5 Lbs.
<u>Hub Model 3AF32C522</u>						
82NJ[X]-2 to 82NJ[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF32C523</u>						
L82NJ[X]-2 to L82NJ[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF32C524</u>						
90UM[X]-0 to 90UM[X]-16	375	2275	375	2275	90" - 74" (-0 to -16)	118.5 Lbs.

Blades (See Note 2)	Maximum <u>Continuous</u>		<u>Take-Off</u>		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Ref. Only)
	HP	RPM	HP	RPM		
<u>Hub Model B3DF36C526</u>						
80HJ[X]-0 to 80HJ[X]-8	350	2575	350	2575	80" - 72" (-0 to -8)	96.0 Lbs.
<u>Hub Model B3DF36C527</u>						
L80HJ[X]-0 to L80HJ[X]-8	350	2575	350	2575	80" - 72" (-0 to -8)	96.0 Lbs.

*Higher Weight applies to -C511 model only. **Higher Weight applies to -C528 model only. ***Higher Weight applies to -C514 model only.

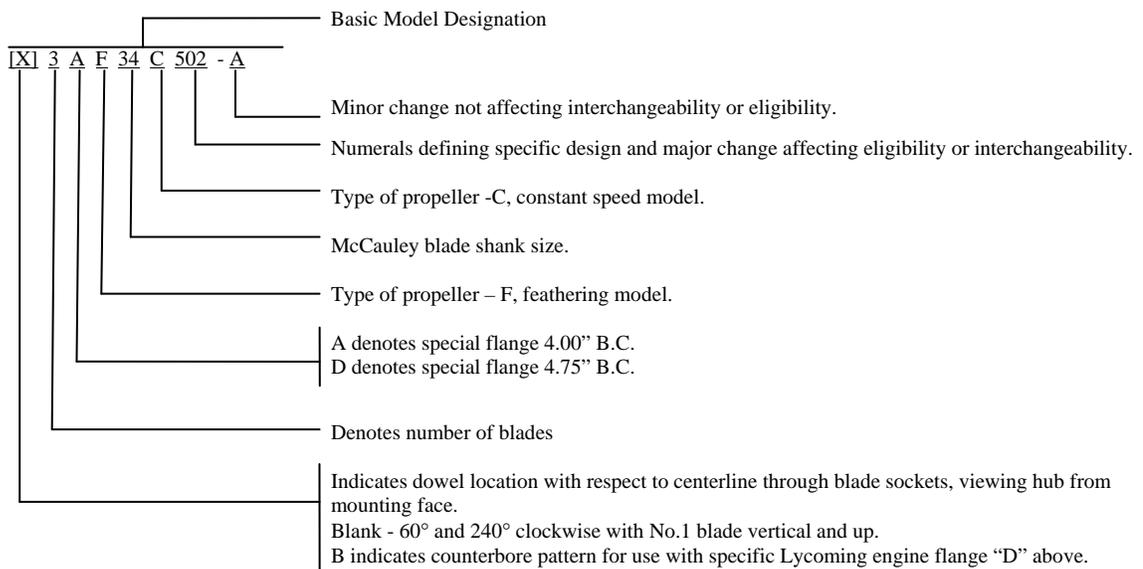
Certification Basis

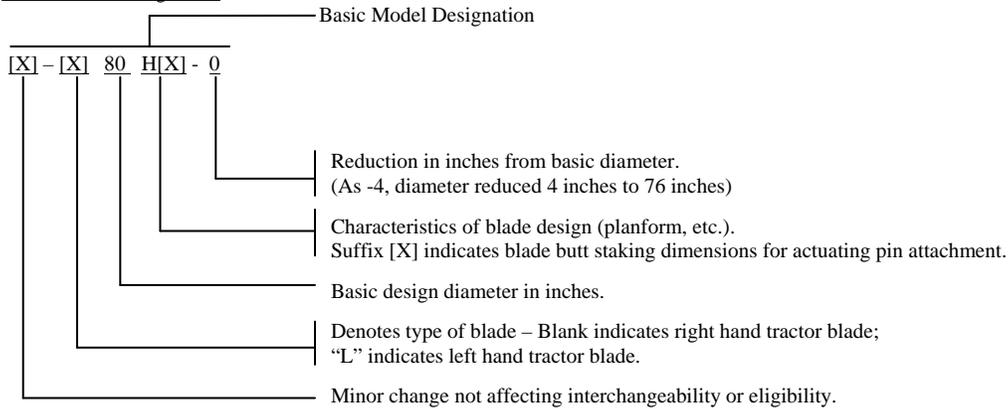
<u>Propeller</u>	<u>Certification Basis</u>	<u>Method of Approval</u>	<u>Application Date</u>	<u>Approval Date</u>
3AF34C502	14 CFR Part 35, Amdt 35-1 to 35-4 (May 2, 1977)	DOA under 14 CFR Part 21, Subpart J	July 12, 1978	July 12, 1978
3AF34C503	14 CFR Part 35, Amdt 35-1 to 35-4 (May 2, 1977)	DOA under 14 CFR Part 21, Subpart J	July 12, 1978	July 12, 1978
3AF32C504	14 CFR Part 35, Amdt 35-1 to 35-4 (May 2, 1977)	DOA under 14 CFR Part 21, Subpart J	July 11, 1980	July 11, 1980
3AF32C505	14 CFR Part 35, Amdt 35-1 to 35-4 (May 2, 1977)	DOA under 14 CFR Part 21, Subpart J	July 11, 1980	July 11, 1980
3AF32C506	14 CFR Part 35, Amdt 35-1 to 35-5 (October 14, 1980)	DOA under 14 CFR Part 21, Subpart J	July 22, 1981	July 22, 1981
3AF32C507	14 CFR Part 35, Amdt 35-1 to 35-5 (October 14, 1980)	DOA under 14 CFR Part 21, Subpart J	July 22, 1981	July 22, 1981
3AF32C508	14 CFR Part 35, Amdt 35-1 to 35-4 (May 2, 1977)	DOA under 14 CFR Part 21, Subpart J	August 08, 1980	August 08, 1980
3AF32C509	14 CFR Part 35, Amdt 35-1 to 35-4 (May 2, 1977)	DOA under 14 CFR Part 21, Subpart J	August 08, 1980	August 08, 1980
3AF37C510	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	July 12, 1995	July 12, 1995
3AF32C511	14 CFR Part 35, Amdt 35-1 to 35-5 (October 14, 1980)	DOA under 14 CFR Part 21, Subpart J	February 12, 1982	February 12, 1982
3AF32C512	14 CFR Part 35, Amdt 35-1 to 35-5 (October 14, 1980)	DOA under 14 CFR Part 21, Subpart J	April 08, 1983	April 08, 1983
3AF36C514	14 CFR Part 35, Amdt 35-1 to 35-5 (October 14, 1980)	DOA under 14 CFR Part 21, Subpart J	March 28, 1989	April 26, 1989
3AF32C515	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	June 19, 1992	June 19, 1992

<u>Propeller</u>	<u>Certification Basis</u>	<u>Method of Approval</u>	<u>Application Date</u>	<u>Approval Date</u>
3AF37C516	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	February 17, 1995	February 17, 1995
3AF32C521	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	November 07, 1994	November 07, 1994
3AF32C522	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	August 16, 1996	August 16, 1996
3AF32C523	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	August 16, 1996	August 16, 1996
3AF32C524	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	February 17, 1998	February 17, 1998
3AF36C525	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	October 13, 1997	October 13, 1997
B3DF36C526	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	January 23, 1998	January 23, 1998
B3DF36C527	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	January 23, 1998	January 23, 1998
3AF32C528	14 CFR Part 35, Amdt 35-1 to 35-6 (August 18, 1990)	DOA under 14 CFR Part 21, Subpart J	March 27, 1998	March 27, 1998

Production Basis Production Certificate No. 3

NOTE 1. Hub Model Designation.



NOTE 2. Blade Model Designation.NOTE 3. Pitch Control. With the following governors:

McCauley Model DCF290D[X]/T[X]	Wt. 3.0 lbs.
McCauley Model DCFU290D[X]/T[X]	Wt. 3.0 lbs.
McCauley Model DCFS290D[X]/T[X]	Wt. 3.0 lbs.
McCauley Model DCFUS290D[X]/T[X]	Wt. 3.0 lbs.
Hartzell Model E-[X]-[X]	Wt. 4.5 lbs.
Hartzell Model E-[X]-[X]L	Wt. 4.5 lbs.
Hartzell Model U-[X]-[X]	Wt. 4.5 lbs.
Hartzell Model U-[X]-[X]L	Wt. 4.5 lbs.
Woodward Model [X]2106[X][X]	Wt. 3.5 lbs.

NOTE 4. Feathering. With full feathering control installed in accordance with the propeller manufacturer's instructions. Controls may include unfeathering, synchronizing or synchrophasing features.

NOTE 5. Not applicable.

NOTE 6. Not applicable.

NOTE 7. Accessories

a. Propeller Anti-icing/Deicing

- (1) Model 80HA, L80HA, 82NFA, and L82NFA blades per Goodrich installation drawing 7E1391.
- (2) Model -C504/82NEA and -C505/82NEA blades per McCauley assembly drawing E-5186.
- (3) Model -C511/82NEA and -C512/82NEA blades per McCauley assembly drawing E-5358.
- (4) Model 82NEB or L82NEB blades per McCauley assembly drawing E-5203.
- (5) Model 80VMF blades per McCauley assembly drawing E-6312, and deice installation drawing D-40486.
- (6) Model 3AF32C515/82NLA per McCauley assembly drawing E-5186 and deice installation drawing C-40219.
- (7) Model 3AF37C516/90LFB per McCauley assembly drawing E-7110.
- (8) Model 3AF37C510/90LFB per McCauley assembly drawing E-7272.
- (9) Model 3AF32C524/90UMB per McCauley assembly drawing E-7549.
- (10) Model 3AF36C525/80VMF[X] per McCauley assembly drawing E-7507.
- (11) Model B3DF36C526/80HJ[X] per McCauley assembly drawing E-7527.
- (12) Model B3DF36C527/L80HJ[X] per McCauley assembly drawing E-7528.
- (13) Model 3AF32C528/82NE[X] per McCauley assembly drawing E-7552.

b. Propeller Spinners

- (1) Model 3AF34C502/80HA or 3AF34C503/L80HA with plain or electric deice spinner; reference D-4986 Dome, D-4984 Bulkhead and D-4987 Installation.
- (2) Model 3AF32C504/82NEA or 3AF32C505/NEA with plain or electric deice spinner; reference D-3651 Dome, D-3925 Bulkhead and D-4042 Installation.
- (3) Model 3AF32C506/82NEB or 3AF32C507/L82NEB with plain or electric deice spinner; reference D-5285 Dome, D-5274 Bulkhead and D-5275 Installation.
- (4) Model 3AF32C508/82NFA or 3AF32C509/L82NFA with plain or electric deice spinner; reference D-4986 Dome, D-4984 Bulkhead and D-4987 Installation.
- (5) Model 3AF32C511/82NEA with plain or electric deice spinner; reference D-5370 Dome, D-5371-2 Bulkhead and D-5311 Installation.
- (6) Model 3AF32C512/82NEA with plain or electric deice or liquid anti-ice spinner; reference D-5370 Dome, D-5499-1 and -3 Bulkhead and D-5309 and D-5310 Installation.
- (7) Model 3AF36C514/80VMFA with plain or electric deicing spinner; reference E-6190 Dome, E-6178 Bulkhead and D-6176 Installation.
- (8) Model 3AF32C515/82NLA with electric deice spinner; reference D-5215 Installation.
- (9) Model 3AF37C516/90LFB per assembly drawing E-7110.
- (10) Model 3AF37C510/90LFB per assembly drawing E-7272.
- (11) Model 3AF32C522/82NJA per assembly drawing E-7315.
- (12) Model 3AF32C523/L82NJA per assembly drawing E-7316.
- (13) Model 3AF32C524/90UMB per assembly drawing E-7549.
- (14) Model 3AF36C525/80VMF[X] per assembly drawing E-7507.
- (15) Model B3DF36C526/80HJ[X] per assembly drawing E-7527.
- (16) Model B3DF36C527/L80HJ[X] per assembly drawing E-7528.
- (17) Model 3AF32C528/82NE[X] per assembly drawing E-7552.

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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