

40MM BY 40MM BY 56MM, 12VDC AXIAL 8-WIRE PROGRAMMABLE FAN



UL File: E512161

AIRODYN 'Performance Series' high speed forward direction 40mm square by 56mm depth axial fan.

5th wire locked-rotor wire available upon request.

Designed operational life from -10 to +70 degrees C ambient. IP69 rotor board coatings, UL94V-0 rated (IP69K available).

CHARACTERISTICS

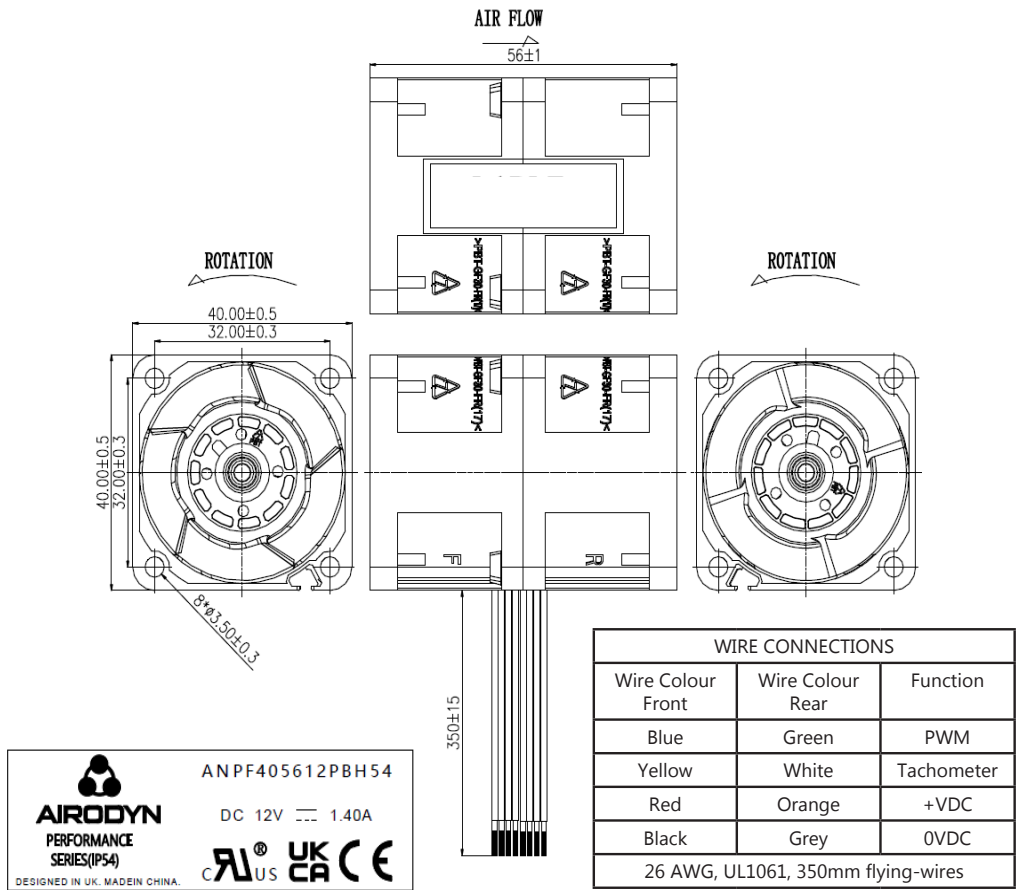
CHARACTERISTICS		
Rated Voltage	VDC	12
Start-up Voltage	VDC	≤ 7.0
Operational Voltage	VDC	7.0 to 13.2
Nominal Rated Speed	RPM	20,600 ± 10% (INLET) / 18,500 ± 10% (OUTLET)
Fan (Nominal Rated Current)	A	1.08 (Max: 1.3) Total
Fan (Nominal Rated Power)	W	12.96 (Max: 15.6)
Rated Airflow	CFM	23.72 (Min: 21.34) 0.67 M3/min (Min: 0.6)
Rated Air Pressure	inch-H2O	3.69 (Min: 2.99) 93.97 mm-H2O (Min: 76.11)
Noise Level	dB(A)	72 (Max: 75)
Weight	grams	90.47
Operating Temperature Range	degrees C	-20 to +70
Storage Temperature Range	degrees C	-40 to +70

Features:

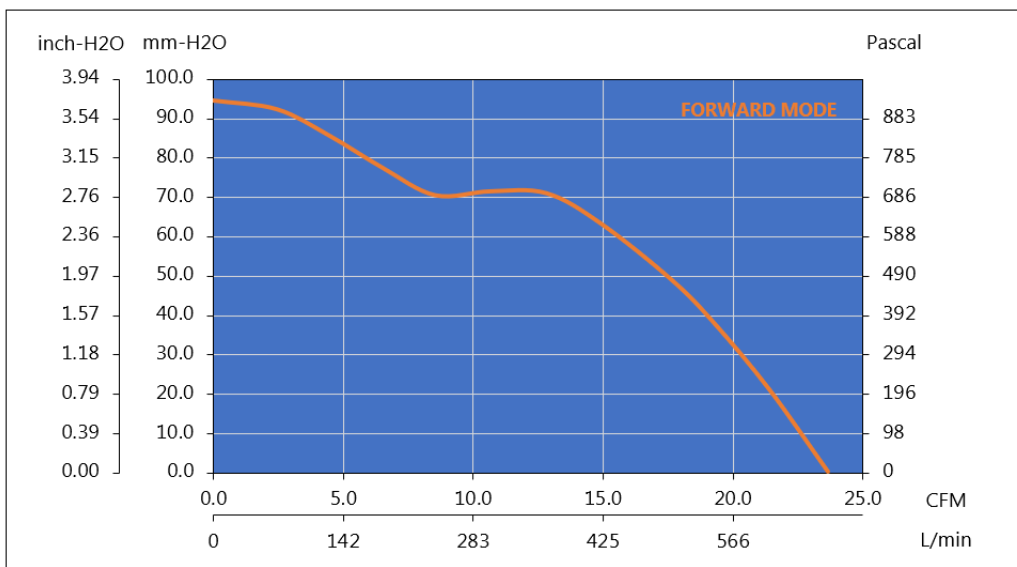
- PWM Input Signal (25KHz)
- Automotive grade
- Tachometer outputs
- Variable input PWM frequency range (100 to 30KHz)
- Frame: Black PBT (UL94V-0) flange
- Impeller: Black PBT (UL94V-0) 5 blades (in) 4 blades (out)
- Maximum operating humidity: 85%RH



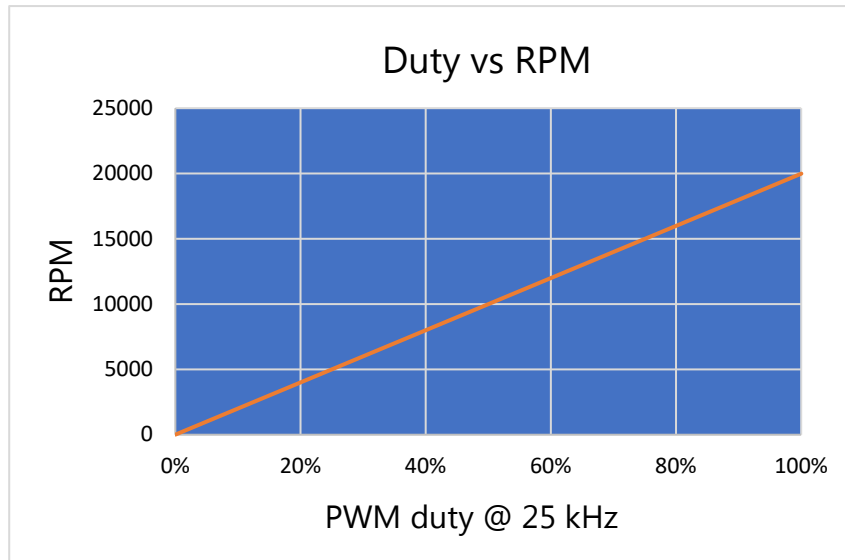
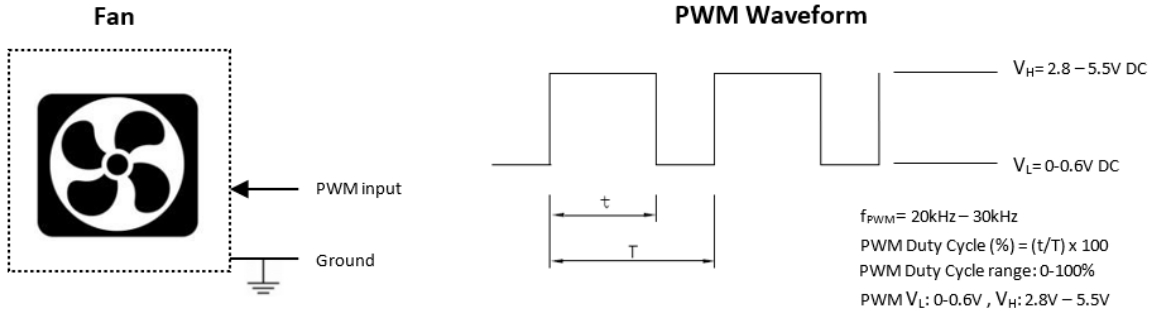
**DIMENSIONS (mm)**



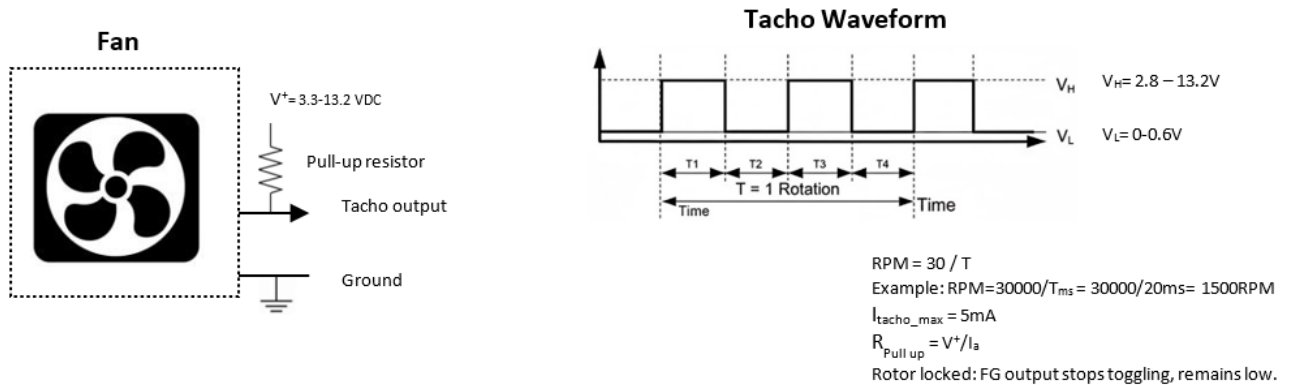
**AIRFLOW / PRESSURE CURVE**



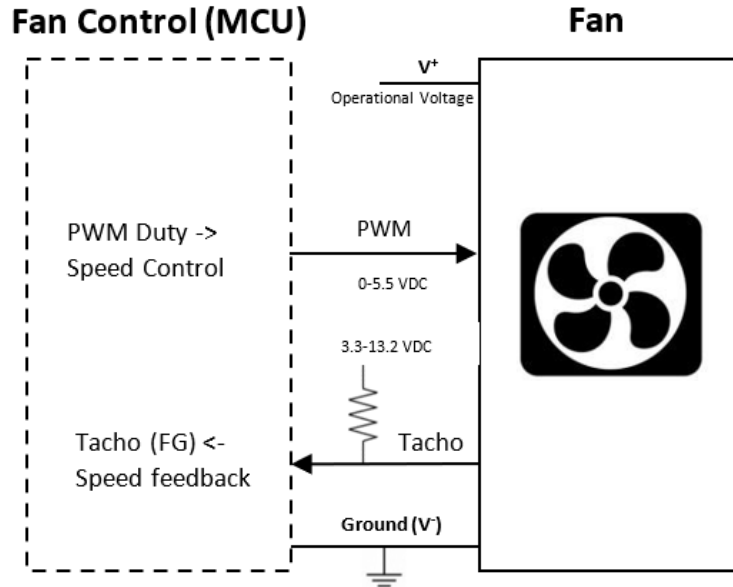
**PWM CIRCUIT**



**TACHOMETER CIRCUIT**



WIRING DIAGRAM



SAFETY NOTES

Min 10MΩ between frame and positive terminal at 500VDC.  
Dielectric strength: Max 5mA between frame and positive terminal at 500VAC/60Hz for 1 minute.  
Insulated Type: UL: Class A (105 DEGREES C)

REVISION HISTORY

rev.	Description	Date
1.0	Initial release	22 Dec 25

