

General Specifications

Motor Protection:

Auto Restart/Polarity Protection

Insulation Resistance:

10M Ω by DC500V Megger

Dielectric Withstand Voltage: AC 700V 1s

Allowable Ambient Temperature Range:

-10°C ~ +70°C (Operating)

-40°C ~ +70°C (Storage)

(non-condensing environment)

Expected Life

Failure Rate: 10%

40°C 70,000 Hours

60°C 40,000 Hours

Material

Casing : Plastic (Black) 94V-0

Impeller : Plastic (Black) 94V-0

Bearing : Ball Bearing

Lead Wire : UL10368/UL1061, AWG 26/28

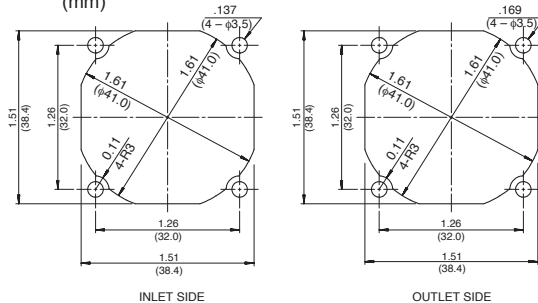
Inlet Fan : +Red, -Black

Tach Sig. : White

PWM Control : Brown

Panel Cut-Outs

Units: $\frac{\text{inch}}{(\text{mm})}$



PWM Control Voltage

Vst = 0V ~ 0.4V Stop (On Duty 0%)

Vst = 3.0V ~ 5.0V Full Speed (On Duty 100%)

Vst = Open Full Speed (On Duty 100%)

(At Ta = 25°C, rated voltage 12VDC, f=25.0kHz)

Specifications

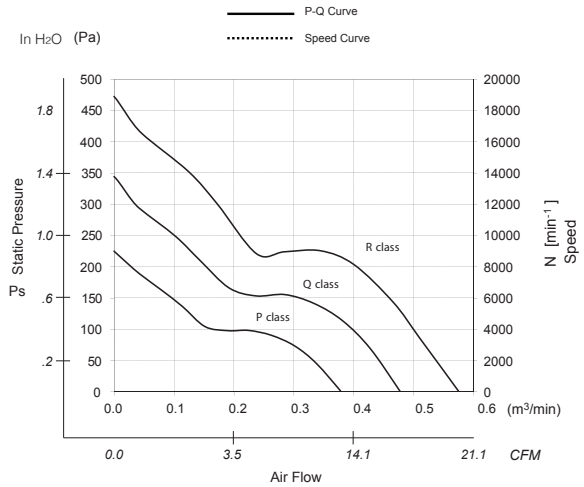
MODEL	Product No.	Rated Voltage	Operating Voltage	Current	Input Power	Speed	Max. Air Flow		Max. Static Pressure		Noise	Mass
		(V)	(V)	(A)*1	(W)*1	(min ⁻¹)*1	CFM*1	(m ³ /min)*1	in H ₂ O	(Pa)*1	(dB)*1	(g)
04028DA-12P-AA	F0	12	10.8 ~ 13.2	0.18	2.16	12000	13.1	0.37	0.92	230.0	45.0	53
04028DA-12Q-AA	F0	12	10.8 ~ 13.2	0.29	3.48	15000	16.6	0.47	1.37	340.0	49.5	53
04028DA-12R-AA	F0	12	10.8 ~ 13.2	0.43	5.16	18000	20.1	0.57	1.93	480.0	54.5	53

Rotation: Clockwise

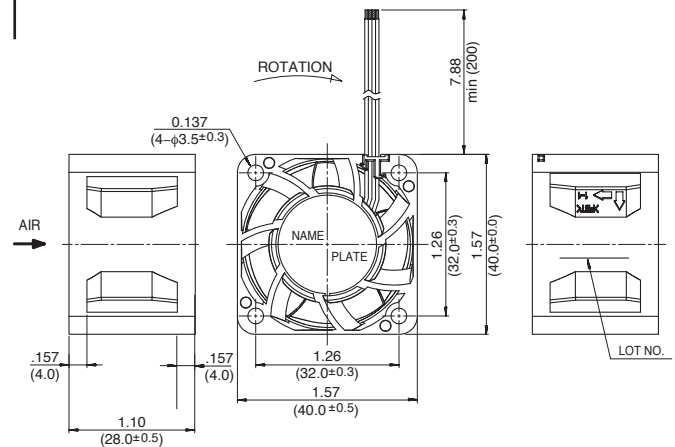
Airflow Outlet: Air Out Over Struts

*1: Average Values in Free Air

Characteristic Curves



Outline



Reference PWM Duty Vs. Speed Curve

