# 04028DA (40□ x 28L)



## 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)
-30°C ~ +70°C (Storage)
(non-condensing environment)

## Expected Life

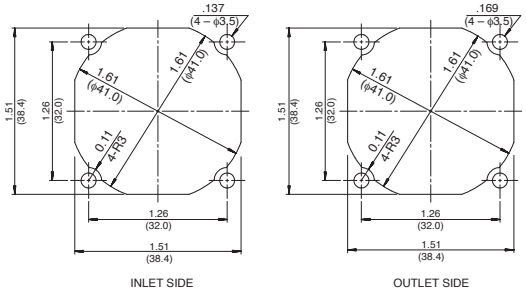
**Failure Rate: 10%**
40°C 70,000 Hours

## Material

Casing : Plastic (Black) UL94V-0
Impeller : Plastic (Black) UL94V-0
Bearing : Ball Bearing
Lead Wire : UL10368, AWG 26, +Red, -Black
Tach Sig. : White
PWM Control : Brown

## Panel Cut-Outs

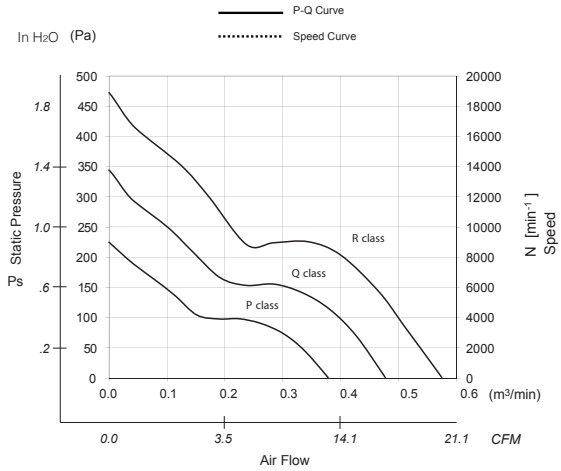
Units: inch (mm)



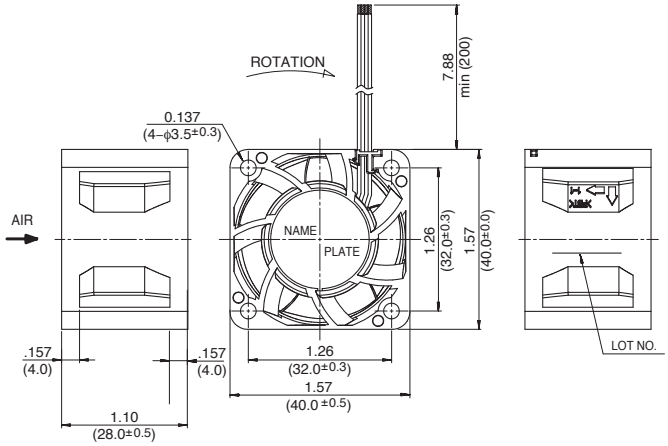

## PWM Control Voltage

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)

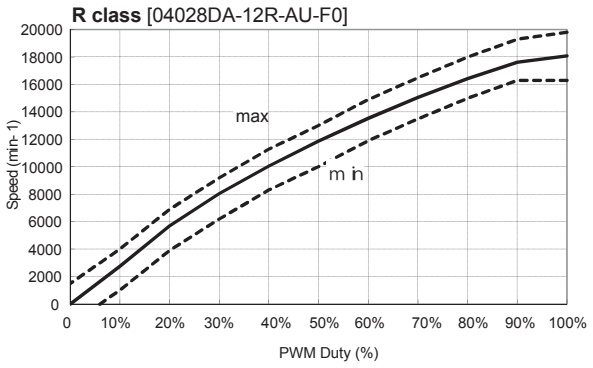
## Characteristic Curves




## Outline




## Reference PWM Duty Vs. Speed Curve




## Specifications

| MODEL | 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 | (m³/min)*1 | in H2O | (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 Note: PWM/Locked Rotor/Tach Available

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## NMB Technologies:

06025SA-24T-AA-D0 11925PB-B3L-EA-00 DDRIF814ZZMTRA5P24LY121 R172H1-051-D0760
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08025VE-12P-GT-D0 DDL-310HA1P25LO1 06025VG-12Q-ZT-A0 08028GS-12N-AA-00
11938FB-A1N-EA-00 11938MA-24P-GA-00 17250VE-48R-GT-00 DDRI1438HHRA5P24LY121
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