

## General Specifications

Motor Protection: Auto Restart / Polarity Protection  
Insulation Resistance: 10M Ohm or over with a DC500V Megger  
Dielectric Withstand Voltage: AC 700V 1st  
Allowable Ambient Temperature Range:  
-10 degree C ~ +70 degree C (Operating)  
-40 degree C ~ +70 degree C (Storage)  
(non-condensing environment)

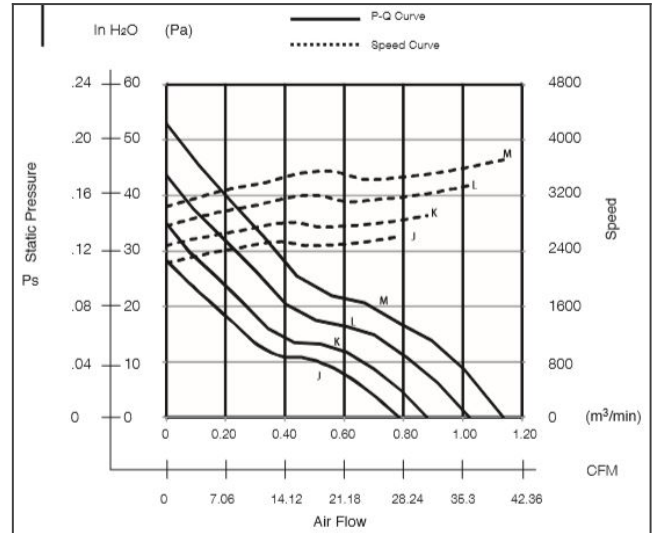
## Material

Casing: Plastic (Black) UL94V-0  
Impeller: Plastic (Black) UL94V-0  
Lead Wire: UL3385, AWG26, +Red, -Black

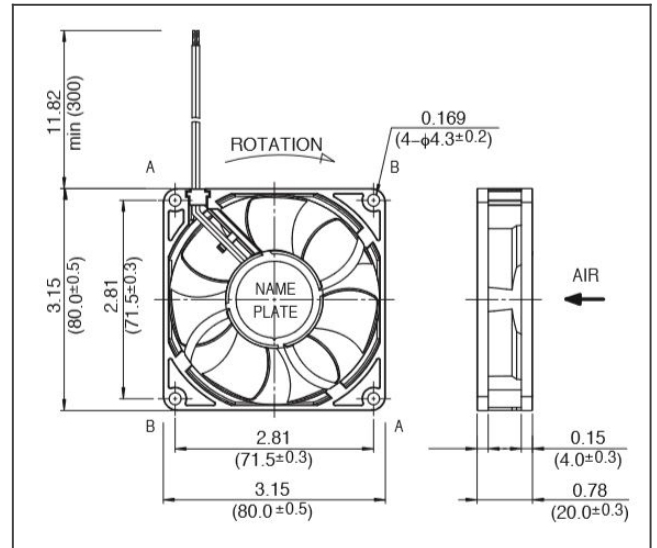
**order part 08020SA-24M-EL-00 Ball Bearing Fan DC Fans**



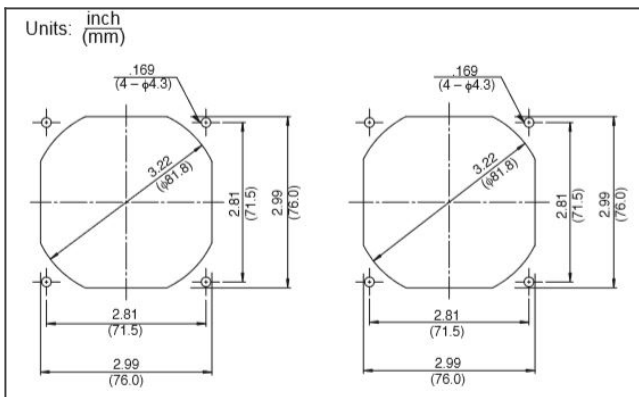
**08020SA characteristic curve**



**08020SA product drawing**



**08020SA panel cut out**



## Detailed Specifications

### DC Fans

|                                 |                                |
|---------------------------------|--------------------------------|
| <b>Expected Life:</b>           | 60 degree C 40,000 Hours (L10) |
| <b>DC Fan:</b>                  | Ball Bearing Fan               |
| <b>Nominal Voltage:</b>         | 24[V]                          |
| <b>Operating Voltage Lower:</b> | 9[V]                           |
| <b>Operating Voltage Upper:</b> | 27.6[V]                        |
| <b>Current:</b>                 | 0.09[A]                        |
| <b>Input Power:</b>             | 2.2[W]                         |
| <b>Speed:</b>                   | 3700[ $\text{min}^{-1}$ ]      |
| <b>Max. Air Flow:</b>           | 1.13[m <sup>3</sup> /min]      |
| <b>Max. Air Flow:</b>           | 39.9[CFM]                      |
| <b>Max. Static Pressure:</b>    | 44[Pa]                         |
| <b>Max. Static Pressure:</b>    | 0.18[In H <sub>2</sub> O]      |
| <b>Noise:</b>                   | 37.5[dB]                       |
| <b>Mass:</b>                    | 80[g]                          |
| <b>Fan Size:</b>                | 80[mm]                         |
| <b>Fan Width:</b>               | 20[mm]                         |
| <b>Life Expectancy L10:</b>     | 60 degree C 40,000 Hours (L10) |
| <b>Series:</b>                  | 08020SA                        |