

Brushless DC Fan - Ball Bearing

48V DC, 60mm × 60mm × 25mm

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**RoHS
Compliant**

Specifications

Mechanical Characteristic

Motor Design	Single phase, 4-poles Brushless DC motor
Bearing System	Precision Ball Bearing System
Materials of Frame	Thermoplastic PBT of UL 94V-0
Materials of Fan Blade	Thermoplastic PBT of UL 94V-0
Direction Of Rotation	Counter-Clockwise Viewed From Front of Fan Blade
Mounting Holes	Diameter 4.3mm in 8 holes
Weight	78g

Electric Characteristic

Rated Voltage	48V DC
Rated Current	110mA
Rated Power Consumption	5.28 Watts
Safety Power Consumption	5.76 Watts / 5.18 Watts
Operating Voltage Range	36V DC to 72V DC
Starting Voltage	36V DC (25°C Power On/Off)
Operating Temperature Range	-10°C to +70°C
Storage Temperature Range	-40°C To + 70°C

Performance Characteristic

Rated Speed	8100 RPM ± 10% At Rated Voltage
Air Flow	37.5 CFM (Nominal)
Static Pressure	0.73 Inch-H ₂ O (Nominal)
Acoustic Noise	49.5 dB(A) (Nominal)
Insulation Class	UL Class A
Insulation Resistance Plastic Housing	10MΩ At 500V DC Between Internal Stator and Lead Wire (+)
Dielectric Strength	Applied AC 500V For one Minute or AC 600V For 2 Seconds Between Housing and Lead Wire (+)
Life Expectancy	70,000 Hours at 40°C, 65% humidity, 90% CL.
Protection	Automatic Restart Note: The motor will shut down when rotor was locked, then auto restart within 10 seconds
	Polarity Protection

Safety

SAFETY	UL	CUR	TUV	CE	CCC
NO.	E77551	E77551	✓	✓	✓

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
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Air Velocity (m/min)	Pressure Drop (mm-H ₂ O)	Pressure Drop (Inch-H ₂ O)
0	20.32	0.80
10	15.24	0.60
20	5.08	0.20
28	~6.0	~0.24
30	5.08	0.20
38	0	0.00

Technical drawing of a fan assembly, showing a top view and a side view.

Top View:

- Overall width: 300 ± 5
- Overall height: 60 ± 0.5
- Inner width (excluding mounting tabs): 50 ± 0.3
- Mounting holes: 8 holes, diameter $\phi 4.3 \pm 0.3$
- Rotation direction: Indicated by a curved arrow labeled "ROTATION".
- Mounting tabs: Two tabs on the right side, each with a width of 5 ± 0.3 .

Side View:

- Overall height: $25^{+0.5}_0$
- Air flow direction: Indicated by an arrow labeled "AIR FLOW".

Description	Part Number
Brushless DC Fan, Ball Bearing, 48V DC, 60mm x 60mm x 25mm, 2 Wire Leads	MP006509

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