

JR6010 — 60 × 60 × 10 mm DC Frame-less Fan

Typical Applications

Industrial Automation Heat dissipation for small servo drives and miniature frequency converters; ventilation for compact PLC control boxes and small-size industrial switching power supplies; cooling for small-sized 3D printers	**New Energy & Power** Heat dissipation for small battery management systems (BMS); cooling of portable charging modules and miniature power supply units
Lighting & Stage Equipment Heat dissipation for small-power LED drivers and mini LED display cabinets; thermal cooling for compact stage effect lights	**Medical Equipment** Chassis ventilation for portable analytical instruments and compact medical monitoring devices
Telecom & Network Equipment Heat dissipation for mini network switches, gateway housings and small communication power supplies	**Home Appliances & Consumer Electronics** Cooling for humidifiers, small air purifiers, portable drying machines; heat dissipation for projector and printer main-board; heat dissipation for low-profile discrete graphics cards

General Specifications

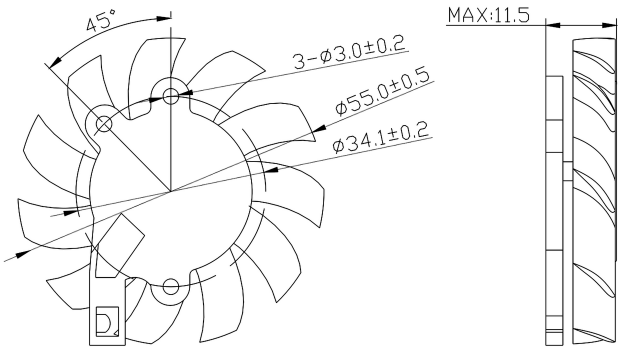
- **Series size:** 60 × 60 × 10 mm
- **Frame:** Thermoplastic PBT, UL 94V-0 (frame-less design)
- **Impeller:** Thermoplastic PBT, UL 94V-0
- **Bearing system:** Ball or Sleeve
- **Life expectancy:** 30,000 hrs (Sleeve) / 50,000 hrs (Ball), continuous operation at 25°C, 65% RH
- **Rated voltages:** 5 / 12 / 24 VDC
- **Speeds:** 3,000 / 4,000 / 4,500 / 5,000 RPM
- **Max airflow:** 17.89 CFM
- **Max static pressure:** 4.41 mmH_2O
- **Weight:** 20.4 g

Performance Data

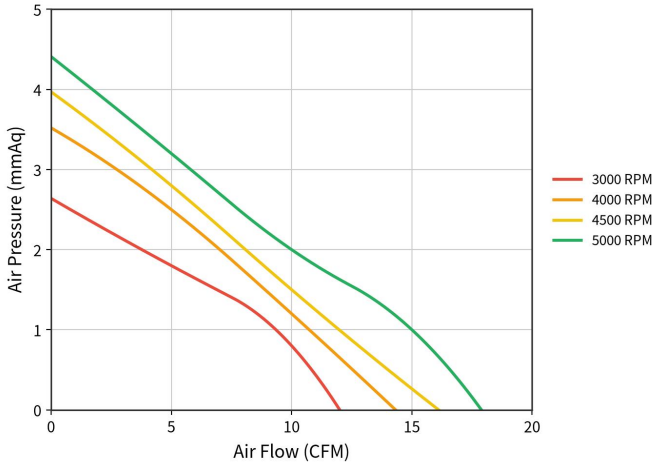
Model	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Max. Airflow	Max. Static Pressure	Noise
JR6010L05	5 VDC	3.6–6.8 VDC	0.15 A	0.75 W	3,000 RPM	10.74 CFM	2.64 mmH_2O	21.6 dB(A)
JR6010L12	12 VDC	7.0–13.5 VDC	0.06 A	0.72 W	3,000 RPM	10.74 CFM	2.64 mmH_2O	21.6 dB(A)
JR6010L24	24 VDC	18–26.5 VDC	0.03 A	0.72 W	3,000 RPM	10.74 CFM	2.64 mmH_2O	21.6 dB(A)
JR6010M05	5 VDC	3.6–6.8 VDC	0.39 A	1.95 W	4,000 RPM	14.32 CFM	3.52 mmH_2O	28.8 dB(A)
JR6010M12	12 VDC	7.0–13.5 VDC	0.15 A	1.80 W	4,000 RPM	14.32 CFM	3.52 mmH_2O	28.8 dB(A)
JR6010M24	24 VDC	18–26.5 VDC	0.07 A	1.78 W	4,000 RPM	14.32 CFM	3.52 mmH_2O	28.8 dB(A)
JR6010H12	12 VDC	7.0–13.5 VDC	0.25 A	3.00 W	4,500 RPM	16.11 CFM	3.97 mmH_2O	30.8 dB(A)
JR6010H24	24 VDC	18–26.5 VDC	0.12 A	2.88 W	4,500 RPM	16.11 CFM	3.97 mmH_2O	30.8 dB(A)
JR6010H12-HH	12 VDC	7.0–13.5 VDC	0.37 A	4.44 W	5,000 RPM	17.89 CFM	4.41 mmH_2O	33.1 dB(A)
JR6010H24-HH	24 VDC	18–26.5 VDC	0.18 A	4.22 W	5,000 RPM	17.89 CFM	4.41 mmH_2O	33.1 dB(A)

Available Functions

Motor Protection	Signal Output	Speed Control Mode
RP ● SS ● LP ● CL ○ OVP ○	FG ● RD ● RDB ○ LD ○	PWM ● TC ○ VC ○ CC ○ CS ○



Mechanical Dimensions (mm)



Airflow — Static Pressure Curve