

9RA0948P1J001

User Manual for Generic 9RA0948P1J001 DC Axial Fan

Model: 9RA0948P1J001 | Brand: Generic

PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the Generic 9RA0948P1J001 DC Axial Fan. This fan is designed for efficient cooling in various applications, featuring a compact 92x92x38mm size, 48VDC operation, and a high airflow of 116 CFM.



Image: The Generic 9RA0948P1J001 DC Axial Fan, showing its black plastic housing, fan blades, and central label with

SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the product:

- Ensure power is disconnected before installation or maintenance.
- Do not touch rotating fan blades.
- Operate the fan within its specified voltage and current ratings.
- Keep foreign objects away from the fan's intake and exhaust.
- Install in a well-ventilated area to prevent overheating.

SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Mounting:** Secure the fan using appropriate screws through the mounting holes on the fan frame. Ensure the fan is mounted in the correct orientation for desired airflow (indicated by an arrow on the fan frame, if present).
2. **Wiring:** Connect the fan's wire leads to a compatible 48VDC power source.
 - Red wire: Positive (+) 48VDC
 - Black wire: Negative (-) Ground
 - Yellow wire: Tachometer output (for speed monitoring)
 - Blue wire: PWM input (for speed control)

Note: Refer to your system's wiring diagram for specific connections. Incorrect wiring can damage the fan or power supply.

3. **Pre-Operation Check:** Before applying power, double-check all connections to ensure they are secure and correctly polarized.

OPERATING INSTRUCTIONS

Once installed and wired correctly, the fan operates automatically when power is supplied. The fan's speed can be controlled via the PWM input if your system supports it.

- **Power On:** Apply 48VDC power to the fan. The fan should begin rotating.
- **Speed Control (PWM):** If using the PWM function, apply a Pulse Width Modulation signal to the blue wire. A higher duty cycle typically results in higher fan speed.
- **Speed Monitoring (Tach):** The yellow wire provides a tachometer signal, which can be used by compatible systems to monitor the fan's rotational speed.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your fan:

- **Cleaning:** Periodically clean dust and debris from the fan blades and housing using a soft brush or compressed air. Ensure power is off before cleaning.
- **Inspection:** Check for any signs of damage, loose connections, or unusual noises during operation.

- **Bearing:** This fan uses ball bearings, which are generally maintenance-free. Avoid applying lubricants unless specifically instructed by the manufacturer.

TROUBLESHOOTING

If you encounter issues, refer to the following table:

Problem	Possible Cause	Solution
Fan does not spin	No power, incorrect wiring, faulty fan.	Check power supply, verify wiring connections, test fan with known good power source.
Fan spins slowly or inconsistently	Insufficient voltage, dust accumulation, PWM signal issue.	Ensure stable 48VDC supply, clean fan blades, check PWM signal integrity.
Excessive noise or vibration	Loose mounting, foreign object, worn bearings.	Tighten mounting screws, remove obstructions, consider fan replacement if bearings are worn.

SPECIFICATIONS

Attribute	Value
Model	9RA0948P1J001
Type	DC Axial Fan
Dimensions (HxWxD)	92 mm x 92 mm x 38 mm
Operating Supply Voltage	48 VDC
Airflow	116 CFM
Speed	6400 RPM
Noise Level	50 dBA
Power Rating	14.9 W
Bearing Type	Ball
Housing Material	Plastic
Termination Style	Wire Leads (4X Wire: Red, Black, Yellow, Blue)
Manufacturer	SANYO DENKI (as per product label)

WARRANTY AND SUPPORT

For warranty information and technical support, please contact your vendor or the manufacturer directly. Keep your purchase receipt as proof of purchase.

This product is manufactured by SANYO DENKI.

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