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1701 R. J. Conlan Blvd. NE, Unit #5 Palm Bay, FL 32905, USA

Toll Free: 888-381-8222

www.performance-pcs.com sales@performance-pcs.com



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Noctua NF-A14 industrialPPC 24V 2000 Q100 IP67 PWM 140mm Fan

\$29.95

Product Images











Short Description

Conceived for industrial heavy-duty applications that require enhanced cooling performance and advanced ingress protection, the NF-A14 industrialPPC (Protected Performance Cooling) is a ruggedised high-speed version of the award-winning retail model. The 24V Q100 variant uses Noctua's AEC-Q100 qualified wide input range NE-FD4 motor driver IC in order to support 24V-based industrial and automotive applications. Its sophisticated inrush current suppression and extreme electrical robustness with extended burst and surge immunity allow it to operate safely in sensitive or hostile electronic environments.

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Features



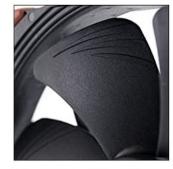
24V version

The industrial PPC 24V Q100 models use Noctua's NE-FD4 three-phase PWM motor driver IC. Supporting operating voltages from 6 to 30V, these models are ideal for 24V-based industrial applications and voltage- or PWM-based speed control.



3000rpm industrialPPC version

Running twice as fast as the 1500rpm retail version, the NF-A14 industrialPPC-3000 provides extreme airflow and pressure performance. Combined with the industrialPPC series' robust polyamide construction and advanced protection features, this makes the fan ideal for challenging industrial applications.



Fibre-glass reinforced polyamide construction

Both the impeller and the frame of Noctua's industrial PPC fans are made entirely from fibre-glass reinforced polyamide. This material can withstand temperatures up to 140°C and makes the fans even more robust and break-proof than Noctua's standard fibre-glass reinforced PBT fans.



Certified IP67 water- and dust protection

The motor and PCB of the IP67 version are completely cast in a special, highly heat conductive resin that combines thoroughgoing protection and effective motor heat dissipation. Complying with the ingress protection rating IP67, this fan is not only fully dust tight but also completely waterproof up to 1m water depth.

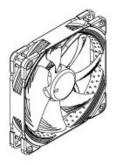


AEC-Q100 qualification

The 24V Q100 version's NE-FD4 motor driver IC complies with the Automotive Electronics Council's highly rigorous AEC-Q100 failure-mechanism-based stress test qualification for integrated circuits, which makes the fan ideal for use in automotive applications.



Specifications









FAN Specification	
Size	140x140x25 mm
Mounting hole spacing	124,5x124,5 mm
Connector & pin-configuration	4-pin PWM
Cable length	40cm
Bearing	<u>SSO2</u>
Blade geometry	A-Series with Flow Acceleration Channels
Frame technology	AAO
Material	Fibre-glass reinforced polyamide
Ingress protection	IP67
Motor type	Three-phase
Rotational speed (+/- 10%)	2000 RPM
Min. rotational speed (PWM, +/-20%)	500 RPM
Rotational speed @ 12V (+/- 10%)	1100 RPM
Airflow	182,5 m³/h
Acoustical noise	31,5 dB(A)
Static pressure	4,18 mm H₂O
Max. input power	2,4 W
Max. input current	0,1 A
Operating voltage	24 V
Voltage PWM signal	5 V
MTTF	> 150.000 h
Scope of delivery	Fan 4 Fan Screws
Warranty	6 years

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Additional Information

Brand	Noctua
SKU	NF-A14-IPPC24V20PIP67Q100
Weight	1.0000
Color	Black
Fan Dimensions	140mm
Fan Width	25mm
Fan Connection	4-Pin PWM
Fan Voltage	24 VDC
Fan RPM	2000
Fan Noise (dB)	31



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