

# OA180APL-22-3WB Orion 230VAC 180x180x65mm Axial Fan Datasheet



**SKU:** 964598376455

**Category:** Axial & Centrifugal Fans

**Price:** \$68.99

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Product Page:

<https://www.equipspares.com/product/oa180apl-22-3wb-orion-230vac-180x180x65mm-axial-fan>

## Product Description

The Orion OA180APL-22-3WB is a robust AC axial fan engineered for high-demand industrial cooling environments requiring substantial airflow and structural rigidity. This unit features a durable aluminum die-cast frame paired with a thermoplastic PBT impeller (UL94V-0), ensuring long-term reliability under thermal stress. The motor architecture utilizes a shaded pole design with dual ball bearings, which significantly reduces friction and extends the operational lifespan compared to sleeve bearing alternatives. Designed for 230VAC operation, the fan delivers exceptional aerodynamic performance, optimizing thermal impedance management in enclosed systems. Its construction meets rigorous standards for vibration resistance and continuous duty cycles, making it a staple component for critical thermal dissipation tasks.

Model Number: OA180APL-22-3WB

Brand: Orion Fans

Product Type: AC Axial Fan

Rated Voltage: 230 VAC

Voltage Range: 207 - 253 VAC

Frequency: 50/60 Hz

Rated Current: 0.16 / 0.14 A

Power Input: 26 / 38 W

Rated Speed: 2950 / 3350 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 360 / 400 CFM (10.2 / 11.3 m<sup>3</sup>/min)

Max. Static Pressure: 0.72 / 0.85 inH<sub>2</sub>O (180 / 212 Pa)

Dimensions: 180 x 180 x 65 mm

Weight: 1.68 kg (3.7 lbs)

Life Expectancy: 60,000 hours at 40°C

Noise Level: 58 / 62 dB(A)

Frame Material: Aluminum Die Cast

Impeller Material: PBT, UL94V-0 Plastic

Motor Type: Capacitor Drive, Impedance Protected

Insulation Resistance: >100M Ohm between lead wire and frame (500VDC)

Dielectric Strength: 1 min at 1500 VAC, 50/60Hz

Operating Temperature: -20°C to +80°C

Storage Temperature: -40°C to +80°C

Termination: Lead Wires (Wire Leads)

Ingress Protection: IP55 (Optional)

Certifications: UL, cUL, TUV, CE, RoHS

The OA180APL-22-3WB is frequently deployed in large-scale industrial machinery where consistent high-volume airflow is non-negotiable. Common applications include cabinet cooling for telecommunications infrastructure, server rack ventilation, and heat dissipation in power inverters or welding equipment. The OA180APL-22-3WB is also suitable for HVAC auxiliary systems and commercial refrigeration units that require a compact yet powerful air mover. Its ability to operate reliably across a broad temperature range makes it ideal for factory automation control panels and outdoor enclosure cooling solutions.

## Supplemental Images

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