

# FC091-SDS.7Q.V7 ZIEHL-ABEGG 400V 910mm AC Axial Fan

**SKU:** FC091-SDS.7Q.V7

**Price:** \$2,321.85

**Categories:** Fans

**Tags:** Ziehl-Abegg

**Product Link:**

<https://www.electspares.com/product/fc091-sds-7q-v7-ziehl-abegg-400v-910mm-ac-axial-fan/>

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## Product Description

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The ZIEHL-ABEGG FC091-SDS.7Q.V7 is a high-performance 400VAC three-phase AC Axial Fan featuring 910 mm specialized aerodynamic sickle-shaped die-cast aluminum blades and a high-torque 6-pole external rotor motor, specifically engineered for mission-critical cooling in Industrial Frequency Converters and large-scale AHU systems. Driven by a precision-balanced motor with maintenance-free ball bearings and moisture/hot climate protection, this 52.90 kg unit operates at 400 VAC / 50 Hz using a Delta/Star (D/Y) connection to provide dual-speed flexibility, delivering a Max. Power Consumption of 3.60 / 2.50 kW and a Max. Current Draw of 7.20 / 4.30 A at a rated speed of 890 / 700 RPM. This High-performance unit features a specialized aerodynamic 7-blade aluminum impeller achieving a Max. Air Flow of 25531.0 / 20050.0 m<sup>3</sup>/h (15026.5 / 11799.3 CFM / 425.52 / 334.17 m<sup>3</sup>/min) and a Max. Static Pressure of 19.68 / 12.13 mmH<sub>2</sub>O (193.0 / 119.0 Pa / 0.77 / 0.48 inAq). Featuring a "Made in Germany" robust construction with integrated thermal contacts (TB) for motor protection and high-grade L-TI-0596 powder coating (RAL 9005), this IP54-rated fan is optimized for environments requiring extreme volume airflow and industrial-grade reliability in VFD systems at the end.

FC091-SDS.7Q.V7 Fan Parameters

Model Number: FC091-SDS.7Q.V7

Manufacturer: ZIEHL-ABEGG

Article Number: 107146

Type: Axial fan with sickle blades (Die-cast)

Impeller Size: 910 mm

Weight: 52.90 kg

Origin: Made in Germany

Bearing Type: Ball bearing (Long-time lubrication)

Phase: 3~

Nominal Voltage: 400 VAC

Voltage Range: 360 - 440 VAC

Connection Type: Delta / Star (D/Y)

Frequency: 50 Hz

Max. Current Draw: 7.20 / 4.30 A

Max. Power Consumption: 3.60 / 2.50 kW

Rated Speed: 890 / 700 RPM

Power Factor (cos  $\phi$ ): 0.72

Max. Air Flow: 15026.5 / 11799.3 CFM (25531.0 / 20050.0 m<sup>3</sup>/h / 425.52 / 334.17 m<sup>3</sup>/min)

Max. Static Pressure: 19.68 / 12.13 mmH<sub>2</sub>O (193.0 / 119.0 Pa / 0.77 / 0.48 inAq)

Working Air Flow: 25531.0 / 20050.0 m<sup>3</sup>/h

Static Pressure Increase: 193.0 / 119.0 Pa

Motor Protection: Thermal contact (TB) integrated

Insulation Class: Thermal class 155 (Class F / THCL 155)

Degree of Protection: IP54

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Impeller Material: Aluminium (Die-cast)

Ambient Temperature (Max.): 60 °C

Min. Operating Temperature: -40 °C

Standard Compliance: ErP 2015 ( $\eta_{statA}$ : 38.3%); CE; EAC

#### Application

The ZIEHL-ABEGG FC091-SDS.7Q.V7 axial fan is the primary cooling component for high-power industrial frequency converters, massive condensers, and large AHU systems requiring high-volume airflow and dual-speed operation in 400V three-phase environments.

## Product Images

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Scan for product details:

