PRODUCT MANUAL

Axial Fan motor

Model: FZY200 – FZY550



CATEGORY

Cold Room Fans, Lamps & Heaters

MODEL

FZY200 – FZY550

ISSUE DATE

2026-11-26

1. Product Overview

Axial Fan motor

The FZY series is an external rotor axial fan motor: the fan blade mounts directly on the motor's outer rotor, which removes the belt, pulley and separate shaft of a conventional arrangement and makes the whole fan assembly compact enough to fit inside a condensing unit or an evaporator housing.

Eight frame sizes run from FZY200 to FZY550, in two, four and six pole versions, with E marking single phase and D marking three phase. Input power runs from 40 W to 650 W, speed from 900 to 2780 rpm, airflow from 450 to 8560 m3/h and maximum static pressure from 30 to 160 Pa. The naming tells you the size and the pole count: FZY250-4E is a 250 mm, four pole, single phase motor.

Voltage is 220 V 50 Hz on the single phase versions and 380 V 50 Hz on the three phase, which covers the usual condensing unit and air cooler supplies. The motors are rated for ambient from -30 C to +60 C, protection class IP44 or IP54, insulation class B or F, working mode S1 and a service life of at least 30,000 hours.

Two selection points are worth attention. First, the duty point: a fan motor is selected where the fan curve meets the system resistance, so the same motor on a different blade or housing will draw a different current - check the running current after installation rather than assuming the nameplate figure. Second, the protection class: IP54 is the right choice on an evaporator in a washdown room or on an outdoor condenser, where a splash can reach the windings.

Single phase versions are capacitor run, so a fan that fails to start is as likely to be a failed capacitor as a failed motor - check the capacitor before replacing the motor.

2. Key Features

- External rotor axial fan motor with compact structure and low noise
- Single phase 220V and three phase 380V versions
- Naming: FZY + blade diameter + pole count + E (single phase) / D (three phase) + S (suction) / B (blowing)
- For condensers, evaporators, cold storage and cooling towers

3. Technical Specifications

Item	Specification
Model range	FZY200, FZY250, FZY300, FZY350, FZY400, FZY450, FZY500, FZY550 (8 frame sizes; 2/4/6 pole)
Voltage	220 V / 50 Hz (single phase); 380 V / 50 Hz (three phase)
Input power	40 – 650 W
Speed	900 – 2780 rpm
Airflow	450 – 8560 m³/h
Max. static pressure	30 – 160 Pa
Ambient temperature	-30 ~ +60 °C

Item	Specification
Protection / insulation	IP44 or IP54; insulation class B / F
Service life	"e 30,000 hours, working mode S1

4. Commercial Terms

MINIMUM ORDER
Negotiable

LEAD TIME
Negotiable

SHIPPING PORT
Shanghai / Ningbo, China

PLACE OF ORIGIN
China

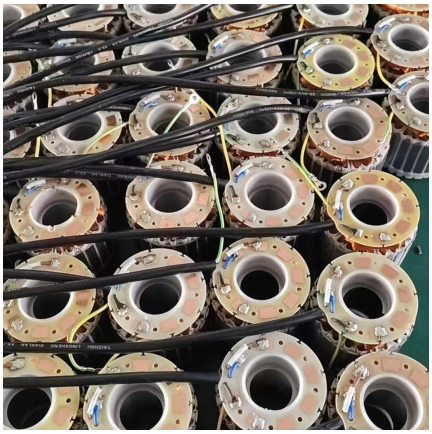
PAYMENT TERMS
T/T, L/C

SUPPLY ABILITY
Negotiable

5. Product Gallery









Contact us for a free quotation

Our engineering team replies within 24 hours with selection advice and an FOB / CIF quotation.



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