**Axial wall fan DZS 50/86 B**

Brief description

Protective grille on the intake side, protection against accidental contact in accordance with DIN EN ISO 13857.

8-blade impellers made of glass-fibre reinforced polyamide

Thermal overload protection as a standard feature.

Fans meet the requirements of the European Ecodesign Directive (EC) No.327/2011 Directive 2009/125/EC.

Vibration-free running due to dynamically balanced impeller and motor (shaft-rotor), according to quality class 6.3, DIN ISO 1940, part 1.

High efficiency on the ventilation side, low operating noise.

Increased durability due to high-quality materials such as quiet ball bearings.

Fans are maintenance-free.

Reversible operation of the fans possible.

Customer-specific special voltages available, as special designs, on request and at extra cost.

Installation for ventilation and air extraction possible in any position.

Air flow direction

The air flow direction is marked.

Standard exhaust air mode, air flow direction with air drawn across motor.

Motor

Asynchronous motor.

Speed controllable. Exception: types DZQ 40/2 B and DZS 40/2 B.

Reversible. Exception: Fans with shaded-pole motors (...-E).

Not suitable for ventilating steam-saturated air.

Three-phase AC motor

Asynchronous motor.

Not suitable for ventilating steam-saturated air.

Rated voltage 400 V, 50 Hz.

IP 55 degree of protection. Exception for type DZQ ... D IP 54.

Speed controllable. Exception for type DZQ 40/2 B and DZS 40/2 B.

Units can be switched in steps with an optional 5-step transformer.

Reversible.

Reversing mode: The volumetric flow is reduced by approx. 35 % with abnormal air flow direction.

Thermal overload protection as a standard feature. Exception for type DZQ/DZS 25/4 D and pole-changeable axial duct fans, available on request.

Potential-free terminal connections, which must be connected to e.g. an MV 25 motor protection switch or the control circuit of a contactor.

Pole-changeable fans: Ensure overload protection is guaranteed by a motor protection switch provided by the customer.

Pole-changeable motors with speed ratios of 8/4 or 4/2 have a Dahlander pole-changing circuit.

Electrical connection

On terminal block in end cover of the motor.

Safety information

The fan may be operated only if the protection against accidental contact with the impeller is guaranteed to be in accordance with DIN EN ISO 13857, e.g., with Maico SG protective grille.

Special versions

The following special versions are available on request, at an extra cost:

Special voltages and frequencies.

Single-phase motors with thermal contacts or PTC thermistor, potential-free terminal connection.

Condensation drainage holes.

Fans with enhanced anti-corrosion protection.

Impellers made of aluminium.

Information on operation at temperatures occasionally below -20°C available upon request.

If operating with frequency converters, the factory must be consulted.

Feasibility must be checked in each case.

Technical data

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| Article: | DZS 50/86 B |
| Model: | Steel wall ring |
| Air flow volume: | 4.200 m³/h / 5.700 m³/h |
| Rotating speed: | 725 1/min / 970 1/min |
| Speed controllable: | ✔ |
| Reversing capacity: | ✔ |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 160 W / 300 W |
| Inom: | 0,35 A / 0,65 A |
| Imax: | 0,5 A / 0,95 A |
| Degree of protection: | IP 55 |
| Insulation class: | F |
| Pole-changeable: | ✔ |
| Number of poles at high speed: | 6 |
| Number of poles at low speed: | 8 |
| Mains cable: | 5 x 1,5 mm² |
| Installation site: | Wall / Ceiling |
| Type of installation: | Surface-mounted |
| Installation position: | horizontal / vertical |
| Material: | Sheet steel, galvanised |
| Weight: | 23,9 |
| Nominal size: | 500 mm |
| Airstream temperature at nominal current: | 60 °C |
| Airstream temperature at IMax: | 60 °C |
| Packing unit: | 1 piece |
| Range: | C |
| GTIN (EAN): | 4012799940678 |
| Article number: | 0094.0067 |

Manufacturer: MAICO

DZS 50/86 B Axial wall fan