**Axial roof fan DZD 50/4 B**

Brief description

Housing, base plate, intake nozzle and rain protection cover made of galvanised sheet steel.

Galvanized protective grille on the discharge side, protection against accidental contact in accordance with DIN EN ISO 13857.

Sturdy eyebolts enable transport by crane.

8-blade impeller 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.

Can be switched to ventilation or air extraction with separate switch (exception EZD ... E).

Air flow direction

The air flow direction is marked.

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

Three-phase AC motor

Asynchronous motor.

Rated voltage 400 V, 50 Hz.

Degree of protection for DZD ... D IP 54.

Degree of protection for DZD ... B and ... E IP 55.

Speed controllable. 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 DZD 25/4 D (motor protection switch is provided by the customer).

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

Electrical connection

Connecting cable, approx. 1.7 m long.

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.

A proper fixed installation in a horizontal installation position, a permanent electrical supply cable and correct air supply via shaft or duct is stipulated.

Special versions

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

Special voltages and frequencies.

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: | DZD 50/4 B |
| Air flow volume: | 6.170 m³/h |
| Air volumenom: | 3.600 m³/h in opt. efficiency |
| Pressure pfs, nom: | 140 Pa in opt. efficiency |
| Rotating speed nnom: | 1.400 1/min in opt. efficiency |
| Rotating speed: | 1.405 1/min |
| Impeller type: | axial |
| Speed controllable: | ✔ |
| Reversing capacity: | ✔ |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 665 W in opt. efficiency |
| Inom: | 1,2 A in opt. efficiency |
| Imax: | 1,4 A |
| Degree of protection: | IP 55 |
| Insulation class: | F |
| Mains cable: | 7 x 1,5 mm² |
| Installation site: | Roof |
| Installation position: | vertical |
| Material: | Sheet steel, galvanised |
| Colour: | Silver |
| Weight: | 38,5 kg |
| Weight including packaging: | 45,5 kg |
| Nominal size: | 500 mm |
| Width: | 940 mm |
| Height: | 940 mm |
| Depth: | 420 mm |
| Width with packaging: | 941 mm |
| Height with packaging: | 941 mm |
| Depth with packaging: | 510 mm |
| Airstream temperature at nominal current: | -20 °C up to 60 °C |
| Airstream temperature at IMax: | -20 °C up to 60 °C |
| Packing unit: | 1 piece |
| Range: | C |
| GTIN (EAN): | 4012799872269 |
| Article number: | 0087.0226 |

Manufacturer: MAICO

DZD 50/4 B Axial roof fan