**Axial duct fan DZR 40/42 B**

Three-phase AC model

Axial duct fan, in three-phase AC version.

Brief description

Duct sleeve made of galvanised sheet steel, with flanges on both sides.

8-blade impellers made of glass-fibre reinforced polyamide

Flange holes in accordance with DIN EN 12220:1998.

DZR 56/6 B and DZR 56/4 B: Flange holes in accordance with DIN EN 12220: 1998.

To avoid transmission of vibrations to the duct system: Use flexible couplings, feet and vibration dampers.

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 fitted in any position.

Air flow direction

The air flow direction is marked.

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

Three-phase AC motor

Asynchronous motor.

Not suitable for ventilating steam-saturated air.

Rated voltage 400 V, 50 Hz.

High degree of protection IP 55. Exception EZR/DZR ... D IP 54.

Speed controllable. Exception for type DZR 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 DZR 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.

Electrical connection

Terminal box with cable sleeves fitted on the outside.

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.

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: | DZR 40/42 B |
| Air flow volume: | 4.550 m³/h / 9.140 m³/h |
| Air volumenom: | 3.190 m³/h / 6.580 m³/h in opt. efficiency |
| Pressure pfs, nom: | 90 Pa - 350 Pa in opt. efficiency |
| Rotating speed nnom: | 1.480 1/min - 2.920 1/min in opt. efficiency |
| Rotating speed: | 1.487 1/min / 2.948 1/min |
| Impeller type: | axial |
| Speed controllable: |  ✔  |
| Reversing capacity: |  ✔  |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 240 W / 1.610 W in opt. efficiency |
| Inom: | 0,8 A / 2,7 A in opt. efficiency |
| Imax: | 4 A |
| Degree of protection: | IP 55 |
| Insulation class: | F |
| Pole-changeable: |  ✔  |
| Number of poles at high speed: | 2 |
| Number of poles at low speed: | 4 |
| Mains cable: | 5 x 1,5 mm² |
| Installation position: | horizontal / vertical |
| Material: | Sheet steel, galvanised |
| Colour: | Silver |
| Weight: | 22,97 kg |
| Weight including packaging: | 25,07 kg |
| Nominal size: | 400 mm |
| Width: | 438 mm |
| Height: | 438 mm |
| Depth: | 370 mm |
| Width with packaging: | 515 mm |
| Height with packaging: | 495 mm |
| Depth with packaging: | 400 mm |
| Airstream temperature at nominal current: | 60 °C |
| Airstream temperature at IMax: | 60 °C |
| Packing unit: | 1 piece |
| Range: | C |
| GTIN (EAN): | 4012799860662 |
| Article number: | 0086.0066 |

Manufacturer: MAICO

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