**Axial fan DAS 90/4**

Brief description

Axial fan with steel wall ring, in three-phase AC version.

Protective grille on the intake side, painted.

8- to 10-blade impellers made of glass-fibre reinforced polyamide.

Protected against weathering by epoxy coating.

Designed for the temperature range -10 °C +50 °C.

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.

High degree of protection IP 55.

Simple mounting by means of square wall plate (accessory).

Air flow direction

The air flow direction is marked.

For air extraction (clockwise rotation) only.

Three-phase AC motor

Asynchronous motor.

Not suitable for ventilating steam-saturated air.

Rated voltage 400 V, 50 Hz.

IP 55 degree of protection.

Speed controllable. Units controllable via optional frequency converter, e.g. type MF

The fan motor must be secured against thermal overload by means of a current-dependent protection device. The protection device is to be provided by the customer.

Overload protection with motor protection switch provided by the customer.

Temperature class F.

Electrical connection

In terminal box on motor.

Safety information

A star / delta switch, to be supplied by the customer, must be used with fans with power consumption > 4 Kw, in order to limit the starting current.

The fan may be operated, with free air intake or discharge, 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.

Not controllable with a transformer.

Technical data

|  |  |
| --- | --- |
| Article: | DAS 90/4 |
| Model: | Steel ring |
| Air flow volume: | 45.000 m³/h |
| Air volumenom: | 22.300 m³/h in opt. efficiency |
| Pressure pfs, nom: | 591 Pa in opt. efficiency |
| Rotating speed nnom: | 1.480 1/min in opt. efficiency |
| Rotating speed: | 1.470 1/min |
| Impeller type: | axial |
| Speed controllable: | ✔ |
| Reversing capacity: | - |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 5.945 W in opt. efficiency |
| Inom: | 11,8 A in opt. efficiency |
| Imax: | 15,4 A |
| Degree of protection: | IP 55 |
| Insulation class: | F |
| Installation site: | Wall |
| Installation position: | vertical |
| Material: | Sheet steel, varnished |
| Housing material: | Sheet steel, varnished |
| Colour: | grey |
| Weight: | 100 kg |
| Weight including packaging: | 162 kg |
| Nominal size: | 900 mm |
| Width: | 1.130 mm |
| Height: | 1.130 mm |
| Depth: | 655 mm |
| Width with packaging: | 1.300 mm |
| Height with packaging: | 1.300 mm |
| Depth with packaging: | 930 mm |
| Airstream temperature at nominal current: | 50 °C |
| Airstream temperature at IMax: | -20 °C up to 50 °C |
| Packing unit: | 1 piece |
| Range: | C |
| GTIN (EAN): | 4012799838593 |
| Article number: | 0083.0859 |

Manufacturer: MAICO

DAS 90/4 Axial fan